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.
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 or three cinquefoils gules."

Volume III
Postgraduate Handbook

ISSN 0726-1586

RECOMMENDED PRICE $4
POSTAGE EXTRA
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
All enquiries should be addressed to the University Secretary.

The University of Wollongong Calendar

There are 4 volumes of the Calendar:

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

The University of Wollongong Calendar 1987 Volume II
Undergraduate Handbook

The University of Wollongong Calendar 1987 Volume III
Postgraduate Handbook

The University of Wollongong Calendar 1987 Volume IV
Statistics Report
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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 undergraduate courses are given in this volume. Details of the postgraduate courses are given in Volume III 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.
2 THE UNIVERSITY

CALENDAR OF DATES

SUMMER SESSION

December 8 to December 19

CHRISTMAS RECESS

December 22 to January 2

January 5 to February 6

EXAMINATIONS

February 9 to February 13

December

Monday 8......................... Summer Session lectures commence

Monday 22 ....................... Christmas recess commences

January

Friday 2.......................... Christmas recess ends

Monday 26........................ Australia Day holiday

February

Friday 6.......................... Summer Session lectures finish

Monday 9.......................... Examinations commence

Friday 13.......................... Examinations finish

SESSION 1

February 23 to April 19

APRIL RECESS

April 20 to April 26

April 27 to June 7

STUDY RECESS

June 8 to June 14

EXAMINATIONS

June 15 to June 28

MID-YEAR RECESS

June 29 to July 12

January

Thursday 1.......................... New Year’s Day holiday

Friday 9.............................. Last day for Provisional & External re-enrolments

Friday 26.............................. Australia Day holiday

February

Tuesday 3, Wednesday 4,
Thursday 5, Friday 6........................ Enrolment of new students

Thursday 12 — Friday 20........................ Re-enrolment

Wednesday 18........................ Enrolment for Second Round offers

Friday 20.............................. Undergraduate re-enrolments must be completed

Monday 23.......................... Session 1 lectures commence

April

Friday 17.......................... Easter holidays commence

Monday 20.......................... Easter holidays end
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saturday 25</td>
<td>Anzac Day holiday</td>
</tr>
<tr>
<td>Sunday 26</td>
<td>April recess commences</td>
</tr>
<tr>
<td>Sunday 7</td>
<td>Session 1 lectures finish</td>
</tr>
<tr>
<td>Monday 8</td>
<td>Queen's Birthday holiday</td>
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<tr>
<td>Monday 8</td>
<td>Study recess commences</td>
</tr>
<tr>
<td>Sunday 14</td>
<td>Study recess ends</td>
</tr>
<tr>
<td>Monday 15</td>
<td>Examinations commence</td>
</tr>
<tr>
<td>Monday 29</td>
<td>Mid-year recess commences</td>
</tr>
</tbody>
</table>

**SESSION 2**
July 13 to August 23

<table>
<thead>
<tr>
<th>Period</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUGUST RECESS</td>
<td>August 24 to September 6</td>
</tr>
<tr>
<td>STUDY RECESS</td>
<td>September 7 to November 1</td>
</tr>
<tr>
<td>EXAMINATIONS</td>
<td>November 2 to November 8</td>
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<tr>
<td></td>
<td>November 9 to November 29</td>
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<tr>
<td>July</td>
<td></td>
</tr>
<tr>
<td>Sunday 12</td>
<td>Mid-year recess ends</td>
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<tr>
<td>Monday 13</td>
<td>Session 2 lectures commence</td>
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<tr>
<td>August</td>
<td></td>
</tr>
<tr>
<td>Monday 24</td>
<td>August recess commences</td>
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<tr>
<td>September</td>
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<tr>
<td>Sunday 6</td>
<td>August recess ends</td>
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<td>October</td>
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<tr>
<td>Monday 5</td>
<td>Labour Day</td>
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<tr>
<td>November</td>
<td></td>
</tr>
<tr>
<td>Sunday 1</td>
<td>Session 2 lectures finish</td>
</tr>
<tr>
<td>Monday 2</td>
<td>Study recess commences</td>
</tr>
<tr>
<td>Sunday 8</td>
<td>Study recess ends</td>
</tr>
<tr>
<td>Monday 9</td>
<td>Examinations commence</td>
</tr>
<tr>
<td>Sunday 29</td>
<td>Examinations end</td>
</tr>
<tr>
<td>December</td>
<td></td>
</tr>
<tr>
<td>Friday 25</td>
<td>Christmas Day</td>
</tr>
<tr>
<td>Saturday 26</td>
<td>Boxing Day</td>
</tr>
</tbody>
</table>
THE FACULTIES

ARTS

Member Units
Department of English
Department of European Languages
Department of History & Politics
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 and 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 UNIVERSITY

THE DEGREES AND DIPLOMAS AWARDED

UNDERGRADUATE*

Associate Diplomas in:
ADMINISTRATION
the ARTS (PERFORMING & VISUAL)
COMPUTER APPLICATIONS
SPORTS SCIENCE

Diplomas in:
TEACHING (PRIMARY)
APPLIED SCIENCE (NURSING)

Bachelor of:
APPLIED SCIENCE (HUMAN MOVEMENT)
ARTS
ARTS (HONOURS)
COMMERCE
COMMERCE (HONOURS)
CREATIVE ARTS
EDUCATION
ENGINEERING
ENGINEERING (HONOURS)
ENGINEERING/COMMERCE
ENVIRONMENTAL SCIENCE
ENVIRONMENTAL SCIENCE (HONOURS)
MATHEMATICS
MATHEMATICS (HONOURS)
MATHEMATICS/ENGINEERING
MATHEMATICS/ENGINEERING (HONOURS)
METALLURGY
METALLURGY (HONOURS)
SCIENCE
SCIENCE (HONOURS)
SCIENCE/ENGINEERING
INFORMATION TECHNOLOGY AND COMMUNICATION
INFORMATION TECHNOLOGY AND COMMUNICATION (HONOURS)

POSTGRADUATE**

Diploma in:
ACCOUNTANCY
BUSINESS INFORMATION SYSTEMS
COAL GEOLOGY
COMPUTING SCIENCE
EDUCATION
EDUCATIONAL STUDIES (COMPUTERS IN EDUCATION)
EDUCATIONAL STUDIES (ENVIRONMENTAL EDUCATION)
EDUCATIONAL STUDIES (HEALTH EDUCATION)
EDUCATIONAL STUDIES (SCHOOL ADMINISTRATION)
EDUCATIONAL STUDIES (READING/ENGLISH AS A SECOND LANGUAGE EDUCATION)

NOTES: For approved abbreviations — see the Degree and Diploma Regulations.

* For details of courses see Volume II.
** For details of courses see this volume.
EDUCATIONAL STUDIES (SECONDARY MATHEMATICS EDUCATION)
EUROPEAN STUDIES
GENERAL PSYCHOLOGY
GEOGRAPHY
INDUSTRIAL RELATIONS
MANAGEMENT
MATHEMATICS
METALLURGY
OCCUPATIONAL HEALTH AND SAFETY
PHILOSOPHY
PUBLIC WORKS ENGINEERING
SCIENCE AND TECHNOLOGY STUDIES
SOCIOLOGY

Honours Master of:
ARTS
COMMERCE
EDUCATION
ENGINEERING
METALLURGY
SCIENCE

Master of Studies:
CHEMISTRY
COMPUTING
EDUCATION
FRENCH
FRENCH AND ITALIAN
GEOGRAPHY
HISTORY
ITALIAN
MULTICULTURAL STUDIES
PSYCHOLOGY
SOCIAL POLICY
SOCIOLOGY

Master of Accountancy
Master of Computing
Master of Creative Arts
Master of Management

Doctor of:
CLINICAL PSYCHOLOGY
CREATIVE ARTS
PHILOSOPHY
LETTERS
SCIENCE
THE UNIVERSITY OF WOLLONGONG

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His Excellency the Governor of New South Wales

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Deputy Vice-Chancellor (Services And Development)
Director Of The Institute Of Advanced Education
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Associate Director of the Institute Of Advanced Education
Michael Hough, R.F.D., E.D., BE N.S.W., BA Macq., GradDiplIndustEng. DipEd N’c’le N.S.W., DipSchoolAdmin ACAE, MEad Admin N.E., EdD Georgia, MACE FAIM

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ELECTED BY THE LEGISLATIVE ASSEMBLY
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Graham Roberts
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James Whitehead, BSc BMath.

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Alderan Keith W. Phipps, BA DipEd. MACE
Dr. Winifred Joyce Mitchell, MA N.E., PhD N.S.W.

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Professor Murray G. A. Wilson, MA N.Z. MA Wis., PhD Melb MCIT

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Dr. John R. Panter, BA Adel, PhD N.S.W.

Two Members elected by the Institute Academic Staff
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Ronald Keith Pretty, MA Syd., AIE Lond.

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Ronald B. Parker, BA
Peter George Wood, BSc DipEd Syd.

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Professor Ronald C. King

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Professor Peter D. Rousch, Deputy Vice-Chancellor/Director of the Institute of Advanced Education
Mr. Kenneth E. Baumber, University Secretary
Mr. John Shipp

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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
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Dr. Daniel S. Hawley, Department of European Languages
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Dr. Harry Beran, Department of Philosophy
Professor Peter Fisher, Department of Physics
Professor William J. Lovegrove, Department of Psychology
Dr. James E. Falk, Department of Science and Technology Studies
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Mr. John C. Steinke, Faculty of Commerce
Mr. 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

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Professor Carla Fasano, School of Policy and Technology Studies in Education
Dr. 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

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Professor Ron Johnston, Centre for Technology and Social Change

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Ms. Mary M. Greenwell (Faculty of Commerce)
Ms. Patricia A. Rees (Faculty of Education)
Dr. Denis G. Montgomery (Faculty of Engineering)
Dr. Leszek A. Macaisek (Faculty of Mathematical Sciences)
Dr. Peter G. Burton (Faculty of Science)

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Ms. Andra M. Mednis
Ms. Satu O. Muhonen
Mr. Gregory S. Smart
Mr. James Whitehead
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

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

1986
Fellow: Robert John Butler Pearson, AM, FIM, AMTC, MAusIMM, FIMMA, FAIM
FULL TIME STAFF

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

Associate Director of the Institute of Advanced Education
Michael Hough, R.F.D., E.D., BE N.S.W., BA Macq., GradDiplIndustEng. DipEd N'cle N.S.W., DipSchoolAdmin ACAE, MEd Admin N.E., EdD Georgia, MACE FAIM

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

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

Acting Dean of Faculty of Education
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., MCIT

FACULTY OF ARTS

Dean
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DEPARTMENT OF ENGLISH

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

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Dorothy L.M Jones, M.A. N.Z. and Adel., BLitt Oxf.
William D. McGaw, BA Q'ld, MA Macq.
Lecturers
Laleeen Jayamanne, BA Ceylon, MA N.Y., PhD N.S.W.
Maurice B. Scott, BA N.S.W., MA N’cle (N.S.W.)

TEACHING FELLOW
Carmel Pass, BA

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Acting Departmental Head and Lecturer
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Professor of French
Vacant

Senior Lecturers
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Gary J. Ianziti, BA San Fran., MA PhD Nth. Carol.
DipAEFMAV Besancon
Gaetano L. Rando, BA Syd., MA W.Aust., DipPerfStor Ling It Rome

Lecturer
Jeanne Rolin-Ianziti, L-ès-L Nice, PhD Nth Carol.

Principal Tutor
Henri A.L. Jeanjean, BA Syd., L-ès-L Bordeaux, DipEd

DEPARTMENT OF HISTORY AND POLITICS

Departmental Head and Professor
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Associate Professor
Colm P. Kiernan, MA Camb. and Melb., PhD N.S.W.

Senior Lecturers
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F. Damaso Marengo, Dott Genoa, MSc Lond., MA PhD Chic.
Ian M. McLaine, BA Monash, DPhil Oxf.

Lecturers
Josephine A. Castle, BA Syd., MA Warwick
E. Peter Johnston, BA Wales
Benedict F. Kiernan, BA PhD Monash
Peter M. Sales, MA, DipEd Monash, PhD LaT.
Andrew D. Wells, MA Monash PhD ANU

DEPARTMENT OF SCIENCE AND TECHNOLOGY STUDIES

Departmental Head and Associate Professor
James E. Falk, BSc PhD Monash

Professor
Ron Johnston, BSc N.S.W., PhD Manc.
Senior Lecturer
John A. Schuster, BA Col., MA Camb., MA PhD Prin., MAHPSSS, MBSHS, MHSS (US), MAHA

Lecturers
Richard J. Badham, BA DipSoc PhD Warwick
Margaret Campbell, BSc DipEd PhD N.S.W., AIP
Brian Martin, BA Rice, PhD Syd.
Evelleen Richards, BSc Q’ld, PhD N.S.W., Pres. AAHPSSS, MISSS
Terry Stokes, BA Macq., PhD Melb., MAHPSSS, MISSS

Bachelor of Information Technology Co-ordinator
Ian Reinecke, BA Melb.

Professional Officer
James A. Hartley, BA, MAAPHSSS

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Rhonda Griffiths, RN, DipMed Armidale CAE
Kit Manson, RN, BA N.S.W.I.T., DipMed Cumb. FCN (N.S.W.)
Tracey McDonald, RN, Dip NEd Cumb. CAE., FCN (N.S.W.)
Mary Martin, RN, BAppSc(Nurs) WAIT
Irene Stein, RN, BA DipNEd Cumb., FCN (N.S.W.)
Margaret Wallace, RN, BA Macq.
Felix Yuen, RN, BA Lond., MSc Edinb., DipManagStud Thames Polytechnic, MCN (N.S.W.)
LIBRARY

University Librarian
John Shipp, BA DipEd Macq., Dip ArchivAdmin N.S.W. ALAA

Technical and Circulation
Services Librarian
Felicity McGregor BA DipLib N.S.W. ALAA

Reader Services Librarian
Ruth Lotze, BA Macq. ALAA

Acquisitions Librarian (Acting)
Jenny Ross, BA Syd. ALAA

Cataloguer
Sharat Arora, MA Agra, MSL W.Mich., DipLibSc DipRussian Delhi

Curriculum Resources Librarian
Rosemarie Dowe, BA N.E., DipLib N.S.W., ALAA

Faculty Librarian
Mary Tow, BA Syd., ALAA

Reader Education Librarian
Margaret Dains, BA Melb., MA N.S.W., ALAA

Systems Librarian
Marilyn Edmond, BA Tas. ALAA

Librarians
Gay Antonopoulos, BA Wis., ALAA
Keith Gaymer, BA Syd., DipLib N.S.W., ALAA
Hanif Haniffa, BA Ceyl., DipLib Lond., ALA, ALAA
Rod Higham, BA Riverina.
Deirdre Jewell, BA DipLib N.S.W.
Gwen D. McLellan, BEd Oregon, ALAA
Saad Sefein, BA Cairo, ALAA
Suzanne Seider, BA DipEd N.S.W., ALAA

COMPUTER CENTRE

Computer Manager
Geoffrey A. Hamer, MA Cant.

Deputy Computer Manager
James McKee, BSc, MBSC, MACS

Management Assistant/Reception
Helen Carter, Dip Teach
Kevin W. Knox
Senior Consultant
Ian Piper, BSc, MACM

Software Support
Stephen Cliffe
Peter Gray, BSc
John D. Oliver, PhD Carnegie Mellon
John S. Rickersey, BSc

Operations Supervisor
Elwyn Walker

Operations
Paul Bezzina
Jim McKenzie

Data Control
Audrey Weir

Business Systems Analyst
Leo M.J. Wynen

Hardware Support Supervisor
James Giblin, BMath.

Hardware Support
Goran Andersson
Bruce Robinson
Richard Wilson
Geoffrey Silburn

Word Processing Development Officer

CENTRE FOR TEACHING DEVELOPMENT
Head
John R. Panter, BA Adel., PhD N.S.W.

Senior Technical Officer

Photographer
Simone Rose

Graphic Designer
John B. Murray

Films Officer
Valma M. Roberts
CONSERVATORIUM OF MUSIC

Head

N. James Powell, DSCM N.S.W. Conserv., MACE
VICE-CHANCELLOR'S UNIT

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

Deputy Vice-Chancellors
Professor Ian W. Chubb, MSc DPhil Oxf.
Professor Peter D. Rousch, BA BEd Melb., PhD Wayne State, FACE, FAIM

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

Co-ordinator Equal Employment Opportunity
Kathleen M. Rozmerta, BA NE., MEd Syd.

Co-ordinator for the Centre for Continuing Professional Education and Executive Officer for the Australian College for Seniors
Barry Maclean Russell, BA U.N.E., MA Macq., FRGS

Head of the Aboriginal Education Unit
Margrett J. Gilson, Dip Teach James Cook, Grad. Dip. Special Ed. Canberra CAE

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

Internal Auditor
Suzanne Corderoy, BCom N.S.W., AASA

Secretary to the Vice-Chancellor
Halina Majer

UNIVERSITY SECRETARY'S DIVISION

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

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

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Assistant Secretary
Peter G. Wood, BSc DipEd Syd.

OFFICE OF RESEARCH AND POSTGRADUATE STUDIES

Senior Administrative Officer
Vacant
Graduate Assistant
Vacant

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

PUBLICITY AND INFORMATION
Administrative Officer
Miranda Baker, BA N.S.W.

Administrative Assistants
Gillian Curtis
Marilyn H. Johnson

REGISTRY
Officer-in-charge
Ian E. Lowe

SECRETARIAT
Administrative Officer

Graduate Assistant
Patricia C. Macquarie, BA

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Commerce — Moira Bowman
Education — Denise R. Stevens, BA, ALAA
Engineering — Maria Roberts, BA DipEd
Mathematical Sciences
Science — Jane L. Jennings, BEd Mitchell

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Co-ordinating Engineer
Meng San Wong, BE W.A., MICE, MIEAust, MIWES

University Engineer
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Jacqueline Jakeman, BA, DipEd
Yvonne D. Leach, BCom

Landscape Supervisor
Martin Bramston

Maintenance Supervisor
Eric J. Young

Project Supervisor
R. (Bob) Slater

Cleaning Supervisor
G. (Joe) Lemme

Patrol Supervisor
John Martino

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Manager
Vacant

BUDGETS AND CONTROL
Senior Administrative Officer
Charles E.J. Ross, AASA

Administrative Officer
David G. Wilson, BCom

BUSINESS SERVICES
Senior Administrative Officer
Melda J. Moss, BA MStud Accy AASA, CPA

Administrative Officer
Vacant

Administrative Assistant
Geoff Bailey

FINANCE SECTION
Senior Administrative Officer
Susan M. Abraham

Administrative Officer
Bill Eggers, BCom AASA
Supply Officer
Graeme E. Dunn, AIPSM

PRINTING AND REPRODUCTION
Senior Administrative Officer
Edwin G. Hyde, AASA

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Manager Personnel Services
Vacant
Personnel Officer
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Salaries Officer
Kenneth W. Moran, ASTC
Safety Officer
Reginald A. Whitton, ASTC, AFAIM, ASIA
Assistant Personnel Officers
Gary Graham (General Staff)
Ross. M. Walker (Academic Staff)
Assistant Industrial Officer
Peter Maywald
Staff Training Co-ordinator
Wendy A. Raikes, BA

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Senior Assistant Secretary
Trevor J. Brew, BA Syd., MEdAdmin N.E.
Senior Administrative Officer
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Administrative Officer
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Graduate Assistants
Stephanie Hockley, BA Syd., Dip Ed
Cathy Zelinsky, BCom
Administrative Assistant
Sandra Ragnoli
STUDENT RECORDS

Administrative Officer
Vacant

Graduate Assistants
Judy Alexander, BA Syd., Dip Lib N.S.W.
Neil Ballardie, BSc.
Mark A. Peacock, BA

STUDENT WELFARE

Counsellors
Gregory R. Hampton, BA Macq. MAPsS
Elizabeth E. Urwin, BA DipEd Syd.

ADMINISTRATIVE DATA PROCESSING UNIT

Head
Jeffrey Balkwill, DipTechnology(Info.Proc.) N.S.W.I.T.

Systems Analyst
Vacant

Analyst/Programmers
Clive Foster, BE N.S.W.
Michael J. Rogers, BEc A.N.U.
Mark Hall
Rosalind Perry

Programmers
Sue Claypole
James Meek
Michel Ralphs
Michael Robinson

PLANNING AND DEVELOPMENT UNIT

Head
Vacant

Administration Officer
Patricia A. Trindall, BA A.N.U.

Statistics Officer
Lily Soh, BSc A.N.U.

Graduate Assistants
Marie Cooper, BA DipEd
Bohdan Natalenko, BA N.S.W. and W'gong
Jan M. Sullivan, BA
Lynn M. Woodley, BA DipEd N.S.W.
EXTERNAL STUDIES

Head
Jeffrey C. Hazell, BA Syd., GradDipDistEd SACAE, ALAA

FRIENDS OF THE UNIVERSITY

Executive Officer
Giles Pickford, BA W.Aust., MPRIA

UNIADVICE

Manager
Peter Sophios

TECHNOLOGY CENTRE

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

HALLS OF RESIDENCE

Manager
Elisabeth A. Hilton

UNIVERSITY UNION

Secretary Manager
Noel Diffe B.Bus Riv

Assistant Secretary Manager
Peter Bottele, BCom

SPORTS ASSOCIATION

Executive Officer
Paul L. Manning, BEd Syd.
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 commenced in 1986.

The Library seeks to provide information resources for University personnel and for 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 may be suspended for the non-return of library materials, for the non-payment of charges for library services or for the failure to observe library regulations. 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 9.00 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, which provides opportunities for the development of social and intellectual intercourse between members, is centred in buildings at the south east corner of campus.

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

Facilities include a general purpose hall, which also serves as a cinema; cafeteria; take-away bar; airconditioned licensed bar; bistro and char grill; coffee lounge and healthy lifestyle self serve cafeteria.

The Union also houses meeting rooms, the Union Shop for stationery, clothing and newsagents lines, the University Co-operative Bookshop Ltd. and the S.R.C. offices. An extension of Union services in 1987 will witness the introduction or relocation of other services to the campus including:

1) The University Club for staff
2) A bar and beer garden at Ground level.
3) A new branch of the National Australia Bank.
4) The opening of a branch of the Illawarra Credit Union.
5) The opening of a branch of the St. George Building Society.
6) The opening of a General Store.
7) An extension of the cafeteria into the existing squash courts, following the relocation of the squash courts to the Sports Centre site.

8) A new coffee lounge.

9) The opening of a travel agency.

10) The establishment of a new medical centre.

11) The establishment of a solicitor's office.

12) The opening of a unisex hairdressing salon.

All students and staff of the University and the Union are members of the Union. The affairs of the Union are controlled by the Board of Management and, in day to day matters, by the Secretary-Manager.

The following Clubs and Societies are affiliated to, and supported by, the Union:

- Indonesian Society
- Wollongong University Nuclear Disarmament Assoc. (W.U.N.D.A.)
- Electrical & Computer Engineering Society
- Geology Society
- Catholic Society
- Writers Club
- Women's Collective
- Italian Club
- French Club
- Film Group
- Gay Society

**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:

- Accounting Society
- Sherlock Holmes Club
- Civil Engineering Club
- Metallurgy Society
- South Pacific Students Association
- Greek Society
- Holiday Society
- Overseas Students' Association
- Society for the Permeation of Zen Alcoholism
- Creative Arts Social Club
- Astro Boy & Phantom Supporters Society
- Resistance Club
- Liberal Students' Club
- Australian Folk Club
- International Chinese Students' Association
- Palestinian Human Rights Society
- Free Vietnamese Students' Association
- Aboriginal Students' Collective
- Arab Students' Society
- Korean Students' Association
- Lebanese Students' Association
- Environmental Association
- Croatian Students' Association
- Muslim Students Association
- Jewish Students' Union
- Drama Society
- Association of Indonesian Students
- and Mining Society.

The S.R.C. is involved in the campaigning 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' Uni.).

"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.
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.).

A Recreation Centre incorporating weights room, administration, sports store, sauna, multipurpose area and 3 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, Indoor Soccer. Artificial Grass Tennis Courts are available night and day.

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

- Athletics
- Australian National Football
- Badminton
- Basketball
- Cricket
- Men's Hockey
- Women's Hockey
- Netball
- Rugby Union
- Rugby League
- Kendo Fencing
- Scuba Diving
- Sailing & Windsurfing
- Snow Skiing
- Soccer
- Squash
- Table Tennis
- Tae Kwon Do
- Tennis
- Touch Football
- Volleyball
- Water Skiing

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: Rev. E. Seidel,
216 Jacaranda Avenue,
Figtree. 2525
Telephone 291671

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

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

Presbyterian: Rev. J.J. Knapp,
St. Andrew's Manse,
25 Stanbrook Avenue,
Mt. Ousley. 2519
Telephone 291725 (office)
295358 (home)

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

Uniting: Rev. John Queripel,
36 Fisher Street,
West Wollongong. 2500
Telephone 292117 (office)
292119 (home)

COUNSELLING CENTRE

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, assertive training, preparing for university, job seeking skills, are also run from time to time. These will be advertised.

There are three counsellors . . . Greg Hampton, Sue Cribb and Beth Urwin. Appointments to see them can be made by telephoning the secretary, Marion Allen, on 27 0592 or by calling in at the Counselling Centre which is located in the Union Building complex, beside the bookshop. The Counselling Centre is open during office hours; evening appointments can be arranged.

ACCOMMODATION

The Secretary in the Counselling Centre provides an information service on accommodation available for students in the local community. A range of private accommodation, e.g. board (both 7 and 5 day), single rooms, flats and houses is made available by the local community in response to media advertisements. Students who are interested in this accommodation should contact the Secretary during January and February of each year, telephone 27-0592.

HALLS OF RESIDENCE

The University’s three halls are administered by a Board of Management.

KOOLOOBONG is a housing complex on campus for 100 students. These furnished, self catering homes for two or five students are on Northfields Avenue, Gwynneville.

WEENONA accommodates 100 students, 70 in shared study bedrooms and 30 in single rooms. Most meals are provided. Located adjacent to Beaton Park Leisure Centre, Weerona is a 20 minute walk to the main campus.

INTERNATIONAL HOUSE houses 200 students in single study bedrooms. A central dining room serves most meals. Located at North Wollongong the House is a fifteen minute walk to the main campus.

For further information contact the Manager, Halls of Residence, P.O. Box 1144, Wollongong, 2500. Telephone 042-299711.

The House is operated on a co-educational, non-denominational basis by the Board of Management. As indicated by its title, the House provides a place of living and studying for both overseas and local students, thus providing a meeting place of varying cultures.

The House has 201 single study bedrooms, which include 24 large rooms, 8 with ensuites. The rooms are in 5 three-storey residential blocks.

Facilities include a large lounge room, dining room, students’ kiosk, laundry, games room, computer terminals, small library and tutorial rooms.

Informal tutorials are run by the House Tutors.

Stage I of Kooloobong was completed in 1985, caters for 55 students. It consists of 9 five-bedroom and 5 double self-contained fully furnished units. The completion of stage II in time for the 1986 academic year will provide accommodation for an additional 45 students. Further information can be obtained from the Manager, International House.

For further information contact the Manager, International House, P.O. Box 1144, Wollongong, 2500. Telephone: (042) 299711.
CASUAL/PART TIME EMPLOYMENT
The Student Employment Service provides information about casual and part-time and vacation work. All positions available are displayed on the Counselling Centre noticeboard in the Union Foyer. Students may register for employment with the Counselling Centre Secretary.

Students interested in tutoring in any subject at any level may register with the Counselling Centre Secretary. All positions available will be individually notified where possible.

All enquiries concerning casual, part-time, vacation work and tutoring should be directed to the Student Employment Service, telephone 270592.

MEDICAL SERVICE
The University Medical Service is located in the western extension of the Union Building. Local practitioners visit the university to provide the service. Surgery times are listed on campus notice-boards.

It is preferable that appointments be made at least one hour prior to surgery hours.

For enquiries about the service, information regarding consultation fees or to make an appointment, contact the Counselling Centre secretary, telephone 27-0592.

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 5.45 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 one week during examinations. This totals 17 weeks in Session 1 and 18 weeks in Session 2.

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 DEAF AND HEARING-IMPAIRED STUDENTS
The University has available an FM radio and three Sennheiser infra-red portable amplification systems. The systems may be used to amplify the speaker's voice in lectures and seminars, and have been purchased to assist deaf and hearing-impaired students.

Students wishing to use the amplification systems should contact the Centre for Teaching Development, telephone 270618.
Students with any form of disability can discuss with the counsellors difficulties they may be having at University. Phone 270592 or go to the Counselling Centre, northwest corner of the Union Building. The counsellors can advise about facilities available within the university and the general community.

N.S.W. TEACHER EDUCATION ADVISORY OFFICE (T.E.A.O.)

The N.S.W. Department of Education provides services from the South Coast Regional Office, Crown Central, Wollongong, telephone 290888. The services are intended for those who wish to become teachers within the N.S.W. Department of Education. Advice is given on course components for specific subject teaching areas.

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. Aid by research and other suitable means the advancement, development and practical application of science to industry and commerce, to initiate, promote and further scientific and technological research and to seek actively industrial work and contracts by the provision of an organised research service for the investigation of the problems of production and the development of Government authorities, corporate bodies and persons or companies engaged in industries, commerce and primary production and to conduct and to carry on experiments and to charge for such services as the Company may decide to carry out.
6. Make donations to the University of such amounts and at such times as the Company may determine.

Members are drawn from all walks of life including 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, or in service, or by using the Uniadvice facilities.

The Graduates Group within the Friends offers free membership for the first year and thereafter is $10 per annum or $40 for life membership.

For further information contact Mr. Ben Meek or Mr. Giles Pickford on 270073.

UNIADVICE

Uniadvice is the consultancy arm for the University of Wollongong. As one of 35 member companies of the Australian Tertiary Institutions Consulting Com-
panies 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 Manager of Uniadvice, Mr. Peter Sophios, on (042) 270076 — after hours service available.

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, man management and organisation. Further enquiries should be made to University of Wollongong Coy, UNSWR, Military Road, Port Kembla. Phone 741861.

CENTRE FOR STUDY OF WORK

The Centre for Study of Work is a joint organisation of the University of Wollongong and the Riverina-Murray Institute of Higher Education.

Officers:
Chairman: Dr. R. Markey, BA DipEd Sydney, PhD Wollongong, The University of Wollongong.
Wagga Wagga Convenor: Mr. G. Bamberry, BA, DipPubAdmin Ql’d, MA Sussex, Riverina-Murray Institute of Higher Education.
Albury Convenor: Mr. J. Saw, BA Nottingham, Riverina-Murray Institute of Higher Education.
The Objectives of the Centre are:

1. To link programs of teaching and research to national, social, and academic requirements.
2. To extend the range of existing work-related courses in the contributing institutions by combining the specialist skills of staff members in each.
3. To conduct workshops, seminars and summer schools related to the production and the propagation of those courses, and to investigate the introduction of courses on work as part of the school curriculum.
4. To facilitate the transfer of students between courses and institutions, and their progression from associate diploma courses to more advanced studies.
5. To provide policy advice to private and public authorities based on empirical investigation and theoretical framework.
6. To co-ordinate and develop archival collections and publish material relating to these holdings.
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 involving research are advised to contact the appropriate Departmental/School Head to discuss research interests, suitability of qualifications held and the availability of facilities for research in particular areas.

Applications for admission close on 1st October. However, late applications will be considered if places are available.

Enrolment

No enrolments will be accepted from new students after the end of the second week of Session I, except with express approval of the University Secretary or the Senior Assistant Secretary (Academic and Student Services) and of each Departmental Head concerned.

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 I, except with the approval of each Departmental Head concerned. Persons re-enrolling after the end of the fourth week of Session I can do so only in exceptional circumstances and must have, in addition to the approval of each Departmental Head concerned, the express approval of the University Secretary or the Senior Assistant Secretary (Academic and Student 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, 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 an academic adviser is also required.

Where a variation involving enrolment in a new subject is submitted after the second week of Session I (in the case of Session I 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 academic unit offering the new subject must be obtained.

To avoid having withdrawn subjects shown on their academic records students intending to withdraw from single session subjects should do so no later than the eighth week from the beginning of the appropriate session, while students intending to withdraw from double session subjects should do so no later than the first week of Session 2.
General Information

Miscellaneous Subject Enrolments

A person wishing to enrol in miscellaneous post-graduate (900-level) subjects (i.e. subjects not to be counted towards a degree or diploma) may be considered provided the Head of the appropriate academic unit considers it will be of benefit to the student and there are facilities available.

To be eligible to enrol as miscellaneous students in postgraduate subjects, applicants must meet the entrance requirements for the degrees or diplomas from which the subjects are selected. Applications for miscellaneous 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.
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, 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. confirmation of enrolment form, 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 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 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 Enquiries Office, Ground Floor, Administration Building.

Aircraft:

Concession fares for travel 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 a new Identification Card at the beginning of each 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 collecting examination results, when applying for travel concessions and when notifying a change of address.

A student who loses 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 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 Enquiries Office.
EXAMINATIONS

Formal University examinations may take place at the end of the first or second 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 excuse for failure to attend an examination. Session 1 examination results are posted to the session addresses of students. Session 2 examination results are posted to the home addresses of students. No information concerning examinations or results will be given by telephone.

Examination results may be reviewed for a charge of $11 a subject which is refundable in the event of an error being discovered. Applications for review must be submitted on the appropriate form, together with the necessary charge no later than four weeks from the date of publication of the examination results.

Rules and Procedures for the Conduct of Examinations

(a) Candidates are required to obey any instruction given by an examination supervisor for the proper conduct of the examination.

(b) Candidates are required to be in their places in the examination room not less than ten minutes before the time for commencement.

(c) No bag, writing paper, blotting paper, manuscript or book, other than a specified aid, is to be brought into the examination room.

(d) No candidate shall be admitted to an examination after thirty minutes from the time of commencement of the examination.

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

(f) No candidate shall be re-admitted to the examination room after he has left it unless during the full period of his absence he has been under approved supervision.

(g) A candidate shall not by any improper means obtain, or endeavour to obtain, assistance in his 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 infringement 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 accordance with the By-Laws.

Identification Cards (Examinations)

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

Special Examinations

Students who believe that their attendance at or performance in an examination or assignment has been affected by illness or other cause beyond their control are required to make a written statement to the University Secretary. This statement together with any supporting evidence will be considered by the Departmental Head who has the authority to take whatever action is deemed appropriate in determining the students' overall results.
Academic Review Committee and Council Committee of Appeal (Student Matters)

Students should be aware of the time limits that apply to requests for review of decisions regarding students' academic performance.

Requests to the Academic Review Committee are to be lodged in writing to the University Secretary within six weeks of examination results being released or the initial decision of the Academic Review Committee being made.

Appeals against decisions of the Academic Review Committee are considered by the Council Committee of Appeal (Student Matters). These appeals are to be received by the University Secretary within twenty-one days of the date of the letter sent by the University Secretary notifying the student of the determination of the Academic Review Committee.

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 pre-requisite. 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 the award of a diploma must be made on the appropriate form. Students who complete the requirements for their degrees or diplomas at the end of session 2 should apply by 5th January in the following year. Students who complete their degrees at the end of session 1 and do not wish to wait until the next Graduation Ceremony may choose to have their degrees awarded by resolution of the Council, in which case the application must be submitted to the University Secretary by 1st September. All applicants should ensure that they have completed all requirements for the degree or diploma, including industrial training where necessary.
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. They 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.

The closing date for applications is 1st 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, 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 or 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.

Stipend is $8,126 per annum, with a dependants' allowance at the rate of $2,220.40 for dependent spouse and $884 for each child. There is also provision for establishment, travel, incidentals and thesis allowances. All allowances except travelling and establishment allowances are taxable.

A special supplementary payment of $250 will be made to compensate award holders for the new administration charge on higher education students to be levied from 1987.

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 course-work 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).

Confirmation of Enrolment

Each session, the University will send each student a Confirmation of Enrolment notice which will list all subjects in which the student is officially enrolled according to the University's records. This should be checked carefully. If any amendment is required, it is the student's responsibility to apply promptly for a variation of enrolment as set out above, especially noting the time limits for withdrawal from subjects.

Enrolment at Other Tertiary Institutions

Students wishing to enrol at another tertiary institution, either concurrently or otherwise, and who wish to have subjects successfully completed at that institution counted towards their degrees at the University of Wollongong must gain the prior approval of the Council.
STUDENT CHARGES*

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

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

Compulsory Charges

In 1987 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 ......... $113
External Students .............................................. $28
External Students (Illawarra region) ............... $55
Sports Association† - annual subscription ......... $48
Students’ Representative Council - annual subscription ............ $22

In line with the Federal Government decision, an Administration Charge of $250 will apply in 1987.

Certain categories of students such as overseas students enrolling on a full fee paying basis will be exempted from the charge. Beneficiaries under the AUSTUDY (replaces TEAS) will be reimbursed through the student allowance arrangements.

* All charges listed are current at time of printing.
† Life members of these bodies are exempt from the appropriate charge or charges. See section on exemption from payment of fees.
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.

**Administrative Charges**

Deferred examination ............................................. $ 8 for each subject
Examinations conducted under special circumstances ........ $11 for each subject
Review of examination result ................................... $11 for each subject
Application fee to amend academic record ......................... $40

**New Students** -

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

**Re-enrolling students** -

Failure to enrol or provisionally 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 ................ $30
- Charges paid subsequent to the second week of session 1 .......... $50

**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 (Academic and Student Services).

**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 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.
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 I.

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

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 and re-enrolment. Details of these additional times may be obtained from notices posted at the Cashier’s office.
POSTGRADUATE STUDY

Students at The University of Wollongong may undertake studies leading to the award of:

Doctoral degrees
Honours Masters degrees
Pass Master degrees
Graduate Diplomas

The conditions governing the award of the doctorates contain not only the usual provision for the Doctor of Philosophy (PhD) by thesis but also a special provision for a PhD awarded on the basis of published work. The higher doctorates, the Doctor of Letters (DLitt) and the Doctor of Science (DSc), are awarded for published work which makes "an original contribution of distinguished merit... to the knowledge and understanding of any branch of learning with which the University is concerned."

Students who enrol for postgraduate degrees and diplomas of the University of Wollongong will have to meet the Regulations of the University. The Departments' current research interests, the postgraduate degree and diploma Regulations, the Schedule of Graduate Subjects and the post-graduate subject description may be found in the following pages. Diploma and degree courses are described under Departmental headings, e.g. The Diploma in Accountancy and Legal Studies and Masters degree courses in Accountancy and Legal Studies are described under "ACCOUNTANCY AND LEGAL STUDIES."

Students requiring further information are advised to contact the Department concerned or the Enquiries Office, Administration Building.

NOTE: Details of the enrolment procedures, charges and scholarships which apply at the time of printing are set out in earlier sections of this Calendar.
CONDITIONS OF UNIVERSITY POSTGRADUATE AWARDS

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

DURATION OF AWARD

The maximum period for which an award may be held is three years subject to the following provisions:

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.

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.
SOME CURRENT RESEARCH INTERESTS

Persons interested in pursuing postgraduate studies should contact the appropriate Head of the academic unit. The research interests of the staff cover a wide range of topics, and some current fields of interest are listed below.

ACCOUNTANCY AND LEGAL STUDIES

Accounting education.
Accounting theory construction and verification.
Analysis of Australian and New Zealand company financial reporting practices.
Auditing
Behavioural aspects of management information systems.
Business finance.
Business objectives.
Capital and profit concepts, including cost and value concepts, and their measurement.
Capital expenditure decision-making.
Computer aided instruction in accounting.
Corporate social responsibility accounting.
External reporting in the extractive industries.
Financial institutions and markets.
Funds statements.
History and development of accounting thought.
Institutional arrangements for setting accounting standards
Interfirm comparisons.
International accounting.
International finance.
Portfolio management.
Regulation of the accounting profession.
Small business management.
Statements on accounting standards by professional bodies, and other means of improving accounting practice.
Taxation law and practice.
The use of computers in accounting, auditing and business decision-making.
Venture capital.

LEGAL STUDIES

Anti-discrimination law.
Administrative law.
Bankruptcy law.
Company law.
Consumer protection law.
Contract law.
Joint ventures.
Law of employment.
Labour relations law.
Partnership law.
Price control.
Regulatory controls over corporate behaviour.
Securities industry law.
Taxation law.
Trade practices law.

BIOLOGY

Ecology


Entomology

Behaviour of field crickets.
Environmental Animal Physiology

Temperature regulation.  
Thyroid function in vertebrates.  
Hormones and metabolism.

Genetics

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

Immunobiology

Antigenic stimulation and generation of somatic vs germline diversity. Acquired inheritance.  
Ontogeny - regulation of idiotype restricted and anti-self responses.

Neurobiology

Mechanisms of nerve transmission and of drug action.

Plant biochemistry and physiology

Photosynthesis: chloroplast function and energy transfer within the plant cell.  
Chloroplast - mitochondrial interactions.  
The phylogenetic distribution of leguminous seed proteins.  
Storage and mobilization of nitrogenous mixtures in legume seeds.

BUSINESS POLICY AND OPERATIONS

The Product Management Concept.  
The Marketing of High Technology Products.  
Searching Behaviour of Industrial Organisations.  
Building of Collection of Australian Case Studies in Operations Management.  
Collection of Documents on Australian Monetary and Financial History 1901 to the Present.  
Designing Optimal Investment Strategies for Individuals.  
Australian Case for Protection.  
Investigation of the Relationship between Consumerism as a Social Movement, Consumer Interest Groups and Marketing.  
Development of Theoretical Framework for Analysing Cultural Values, Lifestyle and Purchase Behaviour.  
The Australian Steel Industry.  
Financial Performance of Australian Conglomerates.  
Stockbroking Industry.

CHEMISTRY

Information retrieval from computer-based libraries of mass spectral and other data.  
Applications of computer controlled mass spectrometers to analytical problems.  
Physical mass spectrometry.  
Gas phase ion chemistry.  
Computer-aided instruction techniques in Chemistry.  
New analytical techniques using mass spectrometry, and structural studies of organic, organometallic and inorganic compounds.  
Investigations of molecular energy level structure and spectroscopy of molecules and ions in upper atmosphere Chemistry and in dense molecular clouds in interstellar space.  
Quantum mechanical computation techniques and their error analysis for molecular structure, interactions and reactivity.  
Studies of the nature of molecular and ionic interactions in small clusters.  
Computer modelling of chemical systems.
POSTGRADUATE STUDY

Development of sensitive new analytical methods for air and water pollutants. Analytical studies on Australian shale oils and retort waters. Trace analysis especially related to electrochemical techniques. Studies of heavy metal levels in the Illawarra region and investigations of the mechanism of toxic action. New methods for asymmetric organic synthesis. Natural product synthesis. Biosynthesis and design of specific enzyme inhibitors. Free radical chemistry. Electrochemistry of inorganic and organometallic species. The synthesis and investigation of transition metal complexes as models of metalloproteins such as (i) type I and type II copper proteins, (ii) cytochrome C oxidase, (iii) hemerythrin and hemoglobin, (iv) ferritin. The activation of hydrocarbons by coordination to transition metals-synthetic and kinetic/mechanistic studies. Chiral discrimination in organometallic reactions. The application of fast reaction techniques to mechanistic problems in organometallic and coordination chemistry.

CIVIL AND MINING ENGINEERING

Civil Engineering


Mining Engineering

Mine simulation.
Applications of operations research to mine planning and design.
Geostatistics.
Constitutive relations of coal measure rocks.
Modelling of gas and dust explosion in mines.
Modelling of the interaction of fires with mine ventilation.
Strength tests on grouted rock bolts.
Strata control in longwall mining.
Convergence prediction on longwall facelines.

General

Expert systems development.
Use of spreadsheets in engineering decision support.

COMPUTING SCIENCE

Computer Aided Learning.
Local Networks.
Operating Systems.
Programming Languages.
Programming Methodologies.
Robotics.
Expert Systems.

ECONOMICS

Regional Economic Research

Analysis of safety statistics and procedures at Australian Iron and Steel.
Consumer Perceptions of the Wollongong Central Business District.
Decentralisation in Australia.
Factors affecting the extraction rate in coal mining.
Impact of the Port Kembla coal loading facility expansion on the regional traffic programme.
Methodology of estimating regional input/output tables.
The choice between bus and car transportation in the Wollongong region.

Labour Economics and Industrial Relations

Aborigines in the workforce.
An Australian social contract.
Designing unemployment statistics in New Zealand.
Industrial relations aspects of the Myers recommendation.
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.

Economics of Developing Countries

Agricultural co-operatives in Papua-New Guinea.
Employment and production in plantation agriculture in P.N.G.
Overseas investment in Fiji.
Productivity in Indian agriculture.
The role of natural resources in economic development.
Turnpike optimality in input/output systems.

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 parole system.
Models of flood mitigation.
EDUCATION

Classificatory ability in Australian children.
Cognitive development of minority groups.
Convergent, divergent and operational thinking among white and Aboriginal children.
Curriculum studies and development.
Effects of mass media on children.
Enrichment programmes for disadvantaged preschoolers.
Schooling and social class.
Socialization of children, migrants and minority groups.
Educational administration.
Organizational behaviour.
Open Education.
Work preparation of the mildly mentally retarded.
Curriculum theory and development.
Instructional design.
Learning: how and why it occurs.
Language in Education.
Women in Education.
Policy analysis in Education.

ELECTRICAL AND COMPUTER ENGINEERING

Automatic control.
Plant identification.
Distributed Systems.
Electrostatic precipitation.
Static converters.
Electrical machines.
Computer systems.
Communications.
Microprocessor Design.
Microwave antennas.
Microwave holography.
Image processing.
Computer-aided analysis and design.
Robotics.
Transportation.

ENGLISH

Art, literature and industry in the eighteenth and nineteenth centuries.
Australian English.
Australian Literature.
Early seventeenth century literature.
Early Tudor literature.
Eighteenth century literature.
Elizabethan literature.
Media studies.
Middle English language and literature.
Modern drama.
Nineteenth century literature.
Old English language and literature.
Place names.
Shakespeare.
Sixteenth century lexicography.
The new literatures in English.
The works of James Joyce.
Wordsworth and Coleridge.
EUROPEAN LANGUAGES

19th and 20th Century French novel.
Aldous Huxley and French literature.
Myth in literature.
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.
French regionalism.
The middle ages.
Italo-Australian literature.
Multilingual broadcasting in Australia.
Italian Renaissance Humanism.
Fifteenth century historiography.
Politics and literature.
Italian lexicography.
Folklore among primitive peoples.
Contrastive linguistics: English-Italian.

GEOGRAPHY

Agricultural geography.
Coastal geomorphology.
Fluvial geomorphology.
Urban studies.
Biogeography.
Population studies.
Regional development and planning.
Transport planning.
Maritime transport systems.
Port development.
South-east Asian studies.
Socio-spatial variations in welfare.
Health and welfare service planning.
Evolution of the Australian eastern highlands.

GEOLOGY

The geology of coal measures.
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.

HISTORY

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.
INDUSTRIAL AND ADMINISTRATIVE STUDIES

Management information systems.
Systems simulation and modelling.
Computer based training in business and industry.
Systems analysis and design methodologies.
Application generators and productivity tools.
Computer systems management.
Occupational health and safety.
Waste control.
Decision making in organisations.
Small business management.
Organisation design and behaviour.
Technology work and society.
Regional development.
Human resource development.

INDUSTRIAL RELATIONS

See ECONOMICS

MANAGEMENT

Adoption of innovations in organisations.
Business government relations.
Capital market investments.
Communication and consumer behaviour.
Enterprise development and entrepreneurship.
Industrial communications strategy.
Industrial marking and organisational buyer behaviour.
Management of R & D.
Manufacturing strategy.
Mergers and divestment.
Organisation and impact of technology.
Organisational politics.
Organisational structures.
Portfolio management.
Product policy in technology housed firms.
Retailing.
Strategic management.
Technology licensing and technology transfer.

MATHEMATICS

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.
MECHANICAL ENGINEERING

Coal Technology.
Computation of non-linear water waves.
Computer modelling of flow separation.
Data capture and analysis.
Mechanical Engineering Design.
Pneumatic conveying.
Solar thermal system analysis and design.
Solid mechanics of elastic and magneto-elastic bodies.
Storage and feeder design.
System identification and control.
Tribology.
Turbulent flows.
Wind Energy.

METALLURGY AND MATERIALS ENGINEERING

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.
Development of precision testing equipment for studies of metal deformation in uniaxial and -iaxial tension.
Behaviour of strain hardenable materials in indentation tests.
Analysis and structural interpretation of plastic behaviour in metals.
Fatigue of ferrous alloys.
Crystallographic and metallographic properties of shape memory alloys.
Development of metallographic methods for shape memory alloys.
Metallurgy 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.
Structures and properties of welded metals.
Particle size segregation in blast furnace burdening.
Screening kinetics and permeability of blast furnace charge materials.
Flow of blast furnace charge materials from bins and hoppers.
Drainage of liquids from blast furnace hearths.
Structures in stir cast alloys.
Metallurgy of culturally significant artefacts.

MULTICULTURAL STUDIES

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.

PHILOSOPHY

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.

Philosophical Logic
Identity and criteria.
Philosophy of language.
Theories of reference and existence.

Philosophy of Culture
The idea of social culture.
Pluralism and multiculturism.

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.

PHYSICS

Astronomy - Visible and Infrared.
Experimental Nuclear Physics.
Infra-red Detectors.
Laser Spectroscopy.
Musical Acoustics.
Scattering of Light by Solids.
Studies of Electronic Wave Functions in Solids.

PSYCHOLOGY

Accidents in industry - psychological and physical factors.
Action research and organisational development in industry and other organisations.
Ageing.
Applications of phenomenology in psychology.
Attitudes.
Autonomic components if the orienting reaction.
Biofeedback.
Classical and instrumental autonomic conditioning.
Consciousness.
Content analysis as a methodology.
Decision and risk taking.
Experience based psychology.
Gestalt therapy.
Habit (skill governed behaviours).
Human information processing.
Human learning.
Individual differences.
Intensive groups.
Interface between perception and memory.
Life span development.
Memory and cognition.
Mental imagery.
Moral development.
Mother-infant relationships.
Neonatal development.
Neuroendocrine disturbances associated with anorexia nervosa.
Perceptual skills involved in reading.
Psychology of health and illness.
Psychology of women.
Psychophysiology of the autonomic nervous system.
Sex roles.
Social psychology of industry.
Student guidance and counselling services.
Transpersonal psychology.

SCIENCE AND TECHNOLOGY STUDIES

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.

SOCIOLOGY

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

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

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

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

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

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

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

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

   (g) '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;

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

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

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

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

   (l) '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, literary publications, musical compositions or recordings;

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

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

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

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

(q) '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;

(r) '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;

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

(t) 'full-time candidate' is a candidate who devotes substantially full-time to study for a higher degree or graduate diploma;

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

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

(w) '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

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:

   - Accountancy
   - Business Information Systems
   - Coal Geology
   - Computing Science
   - Education
   - Educational Studies
   - European Studies
   - General Psychology
   - Geography
   - Science and Technology Studies
   - Industrial Relations
   - Management
   - Mathematics
   - Metallurgy
   - Occupational Health and Safety
   - Philosophy
   - Public Works Engineering
   - Sociology

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.

   (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.
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).

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 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.
MASTER OF STUDIES DEGREE REGULATIONS

PRELIMINARY

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

2. These Regulations control courses of study leading to the degrees of:

   Master of Studies in Chemistry (MStudChem)
   Master of Studies in Education (MStudEd)
   Master of Studies in French (MStudFren)
   Master of Studies in French/Italian (MStudFr/It)
   Master of Studies in Geography (MStudGeog)
   Master of Studies in History (MStudHist)
   Master of Studies in Italian (MStudIt)
   Master of Studies in Multicultural Studies (MStudMultiStud)
   Master of Studies in Psychology (MStudPsyc)
   Master of Studies in Sociology (MStudSoc)

COMENCEMENT


APPLICATION FOR REGISTRATION

4. An application for registration as a candidate for a degree of Master of Studies 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 of Studies 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 of Studies 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 of Studies 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 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 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 of Studies 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 of Studies for more than eight consecutive sessions, not including summer sessions, from the date of initial registration.

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

(a) registered as a full-time candidate may not, without approval, continue to be registered for a degree of Master of Studies 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 of Studies 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 Master of Studies 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 of Studies 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
GRADUATE DEGREE & DIPLOMA REGULATIONS 79

(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) (a) To qualify for the award of a degree of Master of Studies 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.

(6) 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).

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

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 of Studies 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
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(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.
PASS MASTER DEGREE REGULATIONS

PRELIMINARY

1. These Regulations may be cited as the “Pass Master Degree Regulations”.

2. These Regulations control courses of study leading to the pass Master degrees of:

   Master of Accountancy (MAccy)
   Master of Computing (MComp)
   Master of Creative Arts (MCA)
   Master of Management (MMgt)
   Master of Social Policy (MSocPol)

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 pass 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 pass 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 pass 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 pass 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:
82 GRADUATE DEGREE & DIPLOMA REGULATIONS

(a) registered as a full-time candidate may not, without approval, continue to be registered for a degree of pass 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 pass 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 pass 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 pass 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 pass 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 pass Master shall undertake an approval course recommended by the Chairperson 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 degree of MComp or the degree of MMgt the course shall comprise subjects having a value of at least 72 credit points and listed in the Schedule of Graduate Subjects following these Regulations.

(6) (a) To qualify for a degree of pass 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).

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 pass 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 pass Master upon a candidate who holds a Graduate Diploma of this University in the same discipline as the degree of pass Master, the candidate shall, except for the case that the course of study for the Diploma is not a component of the degree of pass 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.

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 degrees of pass 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
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(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 & DIPLOMA REGULATIONS

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:

- Master of Arts (Honours) (MA(Hons))
- Master of Commerce (Honours) (MCom(Hons))
- Master of Education (Honours) (MEd(Hons))
- Master of Engineering (Honours) (ME(Hons))
- Master of Metallurgy (Honours) (MMet(Hons))
- Master of Science (Honours) (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
(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 six 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 one or more of the Schedules in Attachment C following the Bachelor Degree Regulations save 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.

SUPERVISION

11. (1) A candidate for a degree of honours Masters by coursework shall be supervised by a course coordinator appointed by Council.

(2) (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;

*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 II Division 2 where first enrolment in that degree of Bachelor of Science in Engineering took place in 1974 or earlier.
(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.

(3) For a candidate undertaking the degree by coursework and thesis or minor thesis the supervisor shall also be the course coordinator referred to in Regulation 11(1).

(4) 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.

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

(6) 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 by 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. 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.

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

(a) that the candidate has attained a satisfactory standard; or

(b) that the candidate has attained a satisfactory standard 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 further specified period of study and/or research; or

(d) that the candidate be required to submit to an oral examination to determine whether the candidate has attained a satisfactory standard; or

(e) that the candidate be not awarded a degree of honours Master.

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 OF 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.
DOCTORAL DEGREE REGULATIONS

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 Clinical Psychology (DCP)
- 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, DCA and DCP 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.

(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 proposes 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.

(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.

(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 examin-
ations 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 six 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 on 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 four sessions 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 five 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 three examiners of the thesis, of whom normally one shall be an internal examiner and two shall be external examiners.

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 the candidate in accordance with Regulation 13(5)(f);

(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) After examining the thesis the examiners may recommend:

(a) that the candidate has attained a satisfactory standard; or

(b) that the candidate has attained a satisfactory standard subject to minor revisions or corrections to the thesis; or

(c) that the candidate be required to re-submit the thesis in a revised form after a further specified period of study and/or research; or
(d) that the candidate be required to submit to a further examination; or

(e) that the candidate be allowed to submit the thesis for a degree of honours Master; or

(f) that, without further test, the candidate not be awarded a degree of Doctor.

(3) If the candidate has attained the required standard, the examiners may recommend that the candidate be examined orally, and, at their discretion, by written papers and/or practical examinations on the subject of the thesis and/or subjects relevant thereto.

(4) If the candidate fails to satisfy the examiners at the oral or other examinations referred to in Regulation 16(3), the examiners may recommend that the University permit the candidate to re-present the same thesis and submit to a further oral, practical or written examination within a period specified by them but not exceeding three sessions, not including summer sessions.

(5) At the conclusion of the oral or other examinations referred to in Regulations 16(3) and 16(4), the examiners will submit to Council a concise report on the merits of the thesis and on the examination results, and Council shall determine whether the candidate may be admitted to the degree.

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.
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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 deliberations 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 his/her first degree.

30. A candidate for the degree shall forward to the University Secretary an application accompanied by the prescribed 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/her-self of the work of others.

31. If the publications 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

(a) 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

(b) 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.
PREPARATION AND SUBMISSION OF THESES FOR HIGHER DEGREES

1. (a) Every candidate required to submit a thesis for the Honours Master degree shall submit to the University Secretary at least four copies of the thesis and supporting work, 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.

(b) Every candidate for the degree of Doctor shall submit to the University Secretary five copies of the thesis and supporting work, 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 contain an abstract of the thesis comprising not more than 600 words and a certificate signed by the candidate to the effect that the work has not been submitted for a degree to any university or such institution except where specifically indicated.

2. 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.

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

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

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

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

3. The required copies of the thesis shall be either assembled securely in a demountable form, or bound, for transmission to the examiners. The demountable form required is one where the sheets are held by posts, and the method of binding is described in paragraph 4.

4. One copy of the thesis is for deposit in the University Library and shall be presented in a permanent and legible form, original typescript, offset printing or Xerographic copy, using dry plain paper copying technique.

If the thesis is submitted in demountable form, all copies are to be bound after the Examiners' Reports are received and any necessary alterations made, unless the Department does not wish its copy to be bound.

(i) The thesis shall be bound in boards, covered with buckram.

(ii) The lettering on the spine binding will be:

(a) 15mm from the bottom and across - UW;
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(b) 70mm from the bottom and across - the degree and, un- 
underneath, the year of submission of the thesis, for example:

\[ \text{PhD} \]

\[ 1986 \]

(c) evenly spaced between the degree and the top, reading up- 
wards, the name of the author, initials first and surname or 
family name.

(iii) No further lettering or decoration is required on the spine or else- 
where on the binding.

(iv) 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.

A completed and signed "Declaration Relating to Disposition of 
Thesis" form (see Section 8 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.

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

6. The degree will not be awarded until the bound Library-deposit copy 
is lodged with the University Secretary.

7. 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.

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

(a) grant the University Librarian permission to publish or to auth- 
orize the publication of the thesis or grant access to it (Form 1);

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

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conditions (Form 3); or

(d) 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).

9. The abstract submitted with the thesis will be forwarded by the Librarian 
to University Microfilms for inclusion in Dissertation Abstracts Information 
Service.
REQUIREMENTS FOR TITLE SHEET OF THESIS

(TITLE OF THESIS)

*A thesis submitted in fulfilment of the requirements for the award of the degree of

(NAME OF DEGREE)

from

THE UNIVERSITY OF WOLLONGONG

by

(AUTHOR'S NAME, DEGREE(S) HELD)

(NAME OF ACADEMIC UNIT)  
(YEAR)

* Where the thesis is in partial fulfilment of the requirement for the award of the degree, the work "partial" must be inserted immediately before the word "fulfilment".
SCHEDULE OF GRADUATE SUBJECTS

DIPLOMAS

Only diplomas comprised wholly of graduate subjects are listed. Postgraduate diplomas with an undergraduate component are available in:

- Accountancy
- Business Information Systems
- Computing Science
- European Studies
- Geography
- Industrial Relations
- Mathematics
- Philosophy
- Science Technology Studies
- Sociology

For details, please see under appropriate department in the Description of Subjects.

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**GRADUATE DIPLOMA IN EDUCATIONAL STUDIES**

Details of the following courses are normal patterns of progression within them may be found under Education in the Description of Subjects.

Graduate Diploma in Education (Primary)
Graduate Diploma in Educational Studies (Computers in Education)
Graduate Diploma in Educational Studies (Environmental Education)*
Graduate Diploma in Educational Studies (Health Education)*
Graduate Diploma in Educational Studies (Reading/English as a Second Language).
Graduate Diploma in Educational Studies (School Administration)
Graduate Diploma in Educational Studies (Secondary Mathematics Education)*

**DIPLOMA IN MANAGEMENT**

Compulsory subjects

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<td>MGMT911 Organisational Behaviour</td>
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<tr>
<td>MGMT912 Management Control Systems</td>
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(Students are required to substitute an optional subject or subjects for any compulsory subjects substantially covered in previous degree or diploma studies.)

Optional subjects

(Subjects aggregating not less than 24 credit points required)

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*Not on offer in 1987.
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104 SCHEDULE OF GRADUATE SUBJECTS

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GRADUATE DIPLOMA IN OCCUPATIONAL HEALTH AND SAFETY

AIIH901      | Organizational Behaviour                  | 6             |
AIIH902      | Occupational Health and Safety Law        | 6             |
AIIH903      | Quantitative Methods                      | 6             |
AIIH904      | Cultural Studies                          | 6             |
AIIH905      | Environmental and Occupational Health     | 6             |
AIIH906      | Communication                             | 6             |
AIIH911      | Ergonomics                                | 6             |
AIIH912      | Rehabilitation                            | 6             |
AIIH915      | Occupational Hazards I                    | 6             |
AIIH916      | Occupational Hazards II                   | 6             |

DIPLOMA IN GENERAL PSYCHOLOGY*

Subjects for the Diploma in General Psychology are made up from the following

PSY951      | The Study of Experience                   | 8             |
PSYC952     | Theory Seminar                            | 8             |
PSYC953     | Health Psychology                         | 8             |
PSYC954     | Psychology and Women                      | 8             |
PSYC957     | Behavioural Medicine                      | 8             |
PSYC958     | Human Communication                       | 8             |

The above subjects are those being offered in 1987 only

DIPLOMA IN PUBLIC WORKS ENGINEERING

CIVL971     | Environmental Engineering                 | 6             |
CIVL972     | Water Engineering                         | 6             |
CIVL973     | Roads and Streets                         | 6             |
CIVL974     | Traffic and Transportation                | 6             |
CIVL975     | Environmental Planning                    | 6             |
CIVL976     | Power, Duties and Financial Management    | 6             |

* Students presently enrolled in the Diploma in Psychology should contact Janet Powell in the Department.
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## MASTER OF CREATIVE ARTS

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This course has been approved for introduction in 1987. For details contact Department of Sociology.
## Master of Studies in Chemistry

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**MASTER OF STUDIES IN FRENCH AND ITALIAN**
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## Schedule of Graduate Subjects

### Master of Studies in Italian

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### Master of Studies in French and Italian

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* Not offered in 1987.
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## HONOURS MASTER OF ARTS

### ACCOUNTANCY AND LEGAL STUDIES*

*Compulsory subjects for students not holding an Honours degree in Accountancy (that is, undertaking a 96 credit point Masters degree)*

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**Optional Subjects**

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*NOTES:*

1) Combinations of subjects from the Departments of Economics, Accountancy and Legal Studies, and Business Policy and Operations may be approved by the Heads of the appropriate Departments. 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 and 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 and Legal Studies see Description of Postgraduate Courses - Accountancy and Legal Studies.

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

** Normally taught in collaboration with the Department of Management.
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*Strongly recommended for each candidate unless otherwise recommended by Supervisor.

** Entry to this subject may depend upon demonstrated expertise in an area of educational practice or theory.

†Not to count with Major Project in Education or Minor Thesis.

††Not to count with Minor Project in Education or Minor Thesis.
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**ELECTRICAL AND COMPUTER ENGINEERING**

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Requirements for Honours Masters degree students in these Departments are as follows:

1. Students entering under section 6(1) of the Honours Masters Degree Requirements (i.e. from a degree of Bachelor with Honours at a standard of Class II, Division 2 or higher) are required to complete the Major Thesis (48 credit points).

2. Students entering under section 6(2) of the Honours Masters Degree Requirements (i.e. from a degree of Bachelor of a standard below Honours Class II, Division 2) are required to complete subjects which aggregate not less than 96 credit points. These will consist of subjects of not less than 48 credit points recommended by the Chairperson of the Department together with the Major Thesis (48 credit points).

ACCOUNTANCY AND LEGAL STUDIES

DIPLOMA IN ACCOUNTANCY

In accordance with the general regulations governing graduate diplomas, candidates for the Diploma in Accountancy 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 Diploma are to be obtained from 200- and/or 300-level subjects offered by the Department of Accountancy. The Diploma requires one year full-time study or part-time equivalent.

The 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 Diploma are:

1. Not less than 30 credit points (of the minimum required of 48) are to be obtained from 200- and/or 300-level subjects offered by the Department of Accountancy.

2. With the approval of the Chairman of the Department of Accountancy and Legal Studies subjects may be selected from 900-level subjects offered by the Department of Accountancy and Legal Studies. (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 Chairman of the Department of Accountancy and Legal Studies as providing a coherent course of study.
MASTER OF ACCOUNTANCY

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 though they do not hold an undergraduate degree; such candidates will be required to pass subjects aggregating 72 credit points.

THE HONOURS MASTER OF COMMERCE DEGREE, ACCOUNTANCY OR ECONOMICS

A. 1. Candidates who have completed the requirements for the award of the BCom(Hons) in Accountancy or Economics 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 and Legal Studies or the Department of Economics, 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 and 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.).
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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 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.

THE HONOURS MASTER OF ARTS DEGREE, ACCOUNTANCY OR ECONOMICS

A. 1. Candidates who have completed at an acceptable standard the requirements for the award of the BA(Hons) in Accountancy and Legal Studies or Economics 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 above under the Honours Master of Commerce degree.

2. See corresponding comments above under the Honours Master of Commerce degree, Accountancy or Economics.

3. See corresponding comments above under the Honours Master of Commerce degree, Accountancy or 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.

DIPLOMA IN MANAGEMENT AND MASTER OF MANAGEMENT SUBJECT DESCRIPTIONS

Lecture/Seminar
Generally a weekly two hour lecture/seminar is held for each of these 900 level subjects.

Assessment
The assessment for these 900 level subjects may be based on seminar contribution, case studies, essays and examinations.

The subject program for each subject will specify the seminar times and the method of assessment.
DESCRIPTION OF SUBJECTS - ACCOUNTANCY & LEGAL STUDIES

Textbooks
Refer to 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.

ACCY931 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.

ACCY960 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 deductibility.

ACCY961 SELECTED LEGAL TOPICS IN MANAGEMENT

Session to be determined; 6 credit points
Selected legal topics in management. (N.B. The selection would be made by the Departmental Chairperson, taking into account the expertise of academic staff, including visiting staff and the interest of students.)

ACCY975 SPECIAL TOPIC IN ACCOUNTING – A
ACCY976 SPECIAL TOPIC IN ACCOUNTING – B

HONOURS MASTER OF ARTS, HONOURS MASTER OF COMMERCE AND MASTER OF STUDIES IN ACCOUNTANCY SUBJECT DESCRIPTIONS

900-LEVEL

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.

The subject program for each subject will specify the seminar times and the method of assessment.

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 and Legal Studies Department.
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

6 credit points

An in depth 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.

**These subjects, ACCY915, ACCY923 ACCY924, ACCY925 and ACCY926 are normally taught in collaboration with the Department of Management.
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 stock market data. Equal emphasis is placed upon the development of theoretical constructs, and appraisal of the results of empirical research, especially Australian studies.

ACCY925 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.

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.

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.

**These subjects, ACCY915, ACCY923 ACCY924, ACCY925 and ACCY926 are normally taught in collaboration with the Department of Management.
DESCRIPTION OF SUBJECTS - ACCOUNTANCY & LEGAL STUDIES

ACCY944 ISSUES IN AUDITING

6 credit points

An indepth 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.

ACCY951 TAXATION POLICY AND PRACTICE

Session 1 or 2; 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 ACCY352 Advanced Taxation Law).

ACCY953 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.

ACCY963 JURISPRUDENCE

6 credit points

A study of theories on the nature and purpose of law.

ACCY964 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.

ACCY965 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.

ACCY966 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.

**ACCY967 STUDIES IN TRADE PRACTICES AND CONSUMER LAW**

*6 credit points*

A detailed examination of restrictive trade 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.

**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.

**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 Departmental Chairman, taking into
DESCRIPTION OF SUBJECTS - ACCOUNTANCY & LEGAL STUDIES

account the expertise of academic staff, including visiting staff, and the interest of students.)

ACCY987 SPECIAL TOPIC IN LAW – A
6 credit points

ACCY988 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 Departmental Chairman taking into account the expertise of academic staff, including visiting staff, and the interest of students.)

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.
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. The remaining 48 credit points will be obtained by completing the subject BIOL999 Major Thesis.

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 research project and present a written report and a seminar on a topic chosen by the supervising staff.

BIOL999 MAJOR THESIS

48 credit points
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:

(a) 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;

(b) 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 Academic Senate 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.

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.
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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, 56hrs 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.

CHEM920 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 Graduate Studies Committee.

MASTER OF STUDIES IN CHEMISTRY

Introduction and Objectives

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

Structure

This is a 48 credit point coursework degree in which students do the subjects CHEM910, CHEM918 and CHEM919 described above.

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.
CIVIL AND MINING ENGINEERING

DIPLOMA IN PUBLIC WORKS ENGINEERING

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.

CIVL971 ENVIRONMENTAL ENGINEERING

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

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

CIVL973 ROADS AND STREETS

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

CIVL974 TRAFFIC AND TRANSPORTATION

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

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

The local government act 1919; ordinances; 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

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

CIVL978 ASSET AND MAINTENANCE MANAGEMENT

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.

HONOURS MASTER OF ENGINEERING - CIVIL 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.

1. 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.

2. 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.

3. The Honours Master of Engineering Degree by Combinations of Coursework and Research Thesis.

This is the more normal course for the younger Civil Engineer, and gives him/her training in research and also gives greater depth of understanding in specialist postgraduate areas.

Master of Engineering Research Thesis Topics

The following subject areas are available for graduates wishing to conduct research for the Honours Master of Engineering Degree. See also section on 'Some Current Research Interests'.

- 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
Aims

The programs of study allow the student to combine specialist postgraduate subjects according to his/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:

(a) 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.

(b) 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 Academic Senate after consultation with the Head of the Department of Civil and Mining Engineering.

Credit Points

Each subject listed 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 Departmental Chairman this subject may be taken by students who intended to enrol in an 8 credit point thesis. It will not be available to those students who enrol in a 28 credit point thesis.

CIVL902 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 probability and reliability; different probability distributions; deterministic and 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.


Concrete construction. Materials; mixing; laying; sampling and testing. Maintenance.

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

CIVL905 TRANSPORTATION ENGINEERING

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 I.C.E.S, 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 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 a 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 hydrographs; 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 bridge; 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


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 subsurface 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 reuse; advanced 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; effects of repeated loading and impact. Analysis and design of deep beams. Yield line method for slabs. Design code provisions.

CIVL 950 THESIS

Double session; 8 credit points

CIVL951 THESIS

Double session; 28 credit points
CIVL952 MAJOR THESIS

Double session; 48 credit points

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.

HONOURS MASTER OF ENGINEERING - MINING 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.

1. 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.

2. 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.

3. The Honours Master of Engineering Degree by Combinations of Coursework and Research Thesis.

This is the more normal course for the younger mining Engineer, and gives him/her training in research and also gives greater depth of understanding in specialist postgraduate areas.

Honours Master of Engineering Research Thesis Topics.

The following subject areas are available for graduates wishing to conduct research for the Honours Master of Engineering Degree. See also section on 'Some Current Research Interests'.

- Roof bolting studies
- Longwall mining
- Surface mining
- Mine simulation, planning and design
- Mine safety
- Geostatistics
- Coal strength
- Mainframe and microcomputer applications
- Expert systems development
Aims

The programs of study allow the student to combine specialist postgraduate subjects according to his 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:

(a) 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.

(b) 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 Academic Senate after consultation with the Head of the Department of Civil and Mining Engineering.

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 rock bursts; collection of mine gases; mine atmospheres, gases, dusts; fires, rescue and recovery; computer analysis.

MINE908 MINE FIRES AND EXPLOSIONS


MINE909 MINE SUBSIDENCE


MINE910 WATER IN MINES

Sources of water in mine. Ground water hydrology for mining. Sump design and planning of drainage system for underground mining. Mining under water-logged 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.
DIPLOMA IN COMPUTING SCIENCE

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

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

   (ii) 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

   (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.

2. A candidate may not include in this program any subjects which the candidate has previously credited towards another degree or 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.

MASTER OF COMPUTING

This course is designed for those students who have been admitted to a degree of Bachelor in the University, or other approved institutions, in a discipline other than Computing Science. In special cases an applicant may be admitted on the basis of other equivalent qualifications and/or experience.

The objective of this degree is to enable graduates over a period of three sessions of full-time study to complete a program of studies which encompasses the main areas of computing.

This is achieved by completing the six subjects CSCI901, Master of Computing Part 1, CSCI902 Master of Computing Part 2, CSCI903 Master of Computing Part 3, CSCI904 Master of Computing Part 4, CSCI905 Master of Computing Part 5, and CSCI906 Master of Computing Part 6, each of which consists of a selection of computing science topics approved by the Chairman of the Department.

A candidate may not include any credit for subjects which have been taken as part of any degree or diploma program previously completed by the candidate.
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:

   Operating systems; Interactive languages; Text processing; Algorithm design; Data base design; Computer graphics; Computer aided learning; Software science.

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 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) 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.

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 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 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), and/or the Mathematics Schedule to the value of 24 credit points.
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(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 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 shall 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, 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 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.

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 techniques 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 specific 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 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 COMBINATORIAL 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

HONOURS MASTER OF ARTS

AAMM901 THESIS MUSIC

48 credit points

The following two areas are offered:

(a) **Composition**: being examined through the submission of a portfolio of compositions and an analysis/dissertation of not less than 30,000 words on any aspect of 20th Century music, which can be demonstrated as being relevant to the composing process.

(b) **Performance**: being awarded for a full recital offering of not less than one hour's duration, plus coursework assessment, and a research thesis on some special aspect of performance of not less than 30,000 words. Special consideration will be given to candidates in Performance offering the following instrumental studies: Strings, Keyboards (including Early Music), Voice, especially for Music Theatre/Opera.

AAFA901 THESIS FINE ARTS

48 credit points

This degree may be taken in any of the following Fine Arts options: Painting; Drawing/Printmaking; Sculpture; Textiles; or Ceramics. Examination will be by means of an exhibition of completed works plus coursework assessment, and the submission of a research thesis of not less than 30,000 words. The thesis should be based upon a study in theoretical terms which supports the submitted Fine Arts specialism.

AAMA905 ADVANCED TOPICS IN CREATIVE ARTS (MUSIC)

48 credit points

The following coursework areas are available for advanced study (research and/or analysis) in Creative Arts (Music).

- Composition Studies
- Instrument Performance
- Cross relationship between music and the allied arts

AAFA905 ADVANCED TOPICS IN CREATIVE ARTS (FINE ARTS)

48 credit points

The following coursework areas are available for advanced study (research and/or analysis) in Creative Arts (Fine Arts):

- Painting
- Printmaking
- Drawing
- Textiles
- Ceramics
- Sculpture
Ph.D IN MUSIC

Three years full-time study in one of the two following areas:

(a) **Composition:** being awarded following submission of a portfolio of compositions, tapes and recordings, and an analytical/research thesis of not less than 60,000 words.

(b) **Musical Analysis:** being awarded for research into some aspect of analysis which demonstrates an original approach to analytical techniques in music and the allied Arts. Special consideration will be given to candidates who propose a thesis which treats upon analytical techniques which cross-relate between music and any of the allied Arts, viz. Theatre, Literature, Fine Arts, etc. The thesis should be of not less than 100,000 words.

Ph.D IN FINE ARTS

The degree will be awarded on the basis of a full exhibition of works submitted during the three years of study, and the submission of a research thesis of not less than 60,000 words duration. The thesis should be concerned with the theoretical aspect of the Fine Arts, which demonstrates some aspects of the submitted Fine Arts specialism. The following Fine Arts areas may be considered: Painting; Drawing/Printmaking; Sculpture; Textiles; Ceramics.

MASTER OF CREATIVE ARTS

Since the creation of the Bachelor of Creative Arts degree program in 1983, the School of Creative Arts has received a number of applications from artists who wish to gain a post-graduate qualification in the Creative Arts.

Whilst a good number of these artists have qualified for a conventional M.A. (Hons.) program in the Creative Arts, a significant group do not satisfy the basic matriculation criteria for admittance to a degree which has a considerable amount of theory and thesis attached to it.

In some circumstances therefore an applicant may be permitted to register for the degree of Master of Creative Arts, provided that he/she can provide evidence of high levels of professional skill and attainments as may be approved by the Council.

Such evidence is to be provided by:

(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.
Effective from 1985, the following subjects may be offered by the School of Creative Arts for the degree of Master of Creative Arts:

**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 standard equivalent to A.B.C. Broadcasting requirements. The course will include working with University Ensembles and will culminate in a recital, concert or public performance.

**AAVA910 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.

**AATM910 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 at least three experts in the relevant field, some of whom are external to the University of Wollongong.

DOCTOR OF CREATIVE ARTS

The Doctor of Creative Arts will be offered in the following areas:

Musical Composition
Musical Performance
Painting
Drawing/Printmaking
Ceramics
Sculpture
Textiles
Creative Writing (Poet/Novelist/Dramatist)

Following interview/audition, the School of Creative Arts will make a full report with appropriate recommendations, all of which will be submitted to the Board of Research and Postgraduate Studies for their approval.
Regulations for Admission

1. Candidates must satisfy the University that they are artists of very high standards. The individual requirements and regulations are set down in order to justify the criteria of 'excellence' which is deemed essential in establishing the status and scope of the degree of Doctor.

2. Candidates must normally show (regardless of actual academic qualifications) that they have received an Arts training of very high standards. Consideration will be given to those who have not studied at specified institutions, but who have nevertheless, studied with an individual artist of international standing.

3. Candidates for the degree of Doctor of Creative Arts, through residency, must undertake to take a full-time residency in the University for a minimum period of three years (six academic sessions).

In the case of candidates who already have a Masters degree, credit exemption of 2 academic sessions may be sought and given, subject to the approval of the Board of Research and Postgraduate Studies.
DIPLOMA IN INDUSTRIAL RELATIONS

1. The Diploma in Industrial Relations shall be subject to the University regulations for the award of Graduate Diplomas together with the following conditions:

2. Candidates are required to complete subjects making up 48 credit points, normally including the following:

   ECON 140  Wage Determination in Australia - 6

   or

   ECON 240  Wage Determination in Australia - 8

   and

   ECON 142  Trade Unions, Employers and Government - 6

   or

   ECON 242  Trade Unions, Employers and Government - 8

   and

   ECON 340  Comparative Studies in Industrial Relations - 8

   and

   ECON 342  Research Topics in Industrial Relations - 8

   and

   ECON 948  Employers and Industrial Relations - 8

   or

   ECON 950  Industrial Relations Policy - 8

3. The remaining subjects will normally be chosen from Schedule C5 of the Bachelor Degree Regulations.

4. 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.

5. The course for the Diploma requires approval by the Head of the Department of Economics as providing a coherent study in Industrial Relations.

6. A candidate may not include in his or her 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.

7. The diploma will normally occupy two sessions of full-time study, or four sessions of part-time study.

8. Departmental pre-requisites apply to choice of subjects.

HONOURS MASTER OF COMMERCE AND HONOURS MASTER OF ARTS DEGREES, ACCOUNTANCY OR ECONOMICS

See entry under Department of Accountancy and Legal Studies.

HONOURS MASTER OF COMMERCE, INDUSTRIAL RELATIONS

A. 1. Candidates who have completed the requirements for the award of a bachelor’s degree with honours in Economics or Psychology 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 course work 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 organized jointly by the Heads of the Departments of Economics and Psychology.

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 and Psychology.

B. Applicants who have completed at an acceptable standard the requirements for a bachelor's degree with a specialisation in Economics or Psychology 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.

HONOURS MASTER OF ARTS, INDUSTRIAL RELATIONS

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 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.

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
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.

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 rates.

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 intergovernmental 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.

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 Chairperson of 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 equations and multi-equation models will be analysed. Emphasis will be placed on the use of theory and a priori information in model modification and forecasting evaluation. Some background in theoretical econometrics is required for the course.

**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.
Topics for these subjects may be drawn from any area of Economics which the
Departmental Chairman considers to be suitable preparation for a higher degree
and appropriate to the student's special interests.

ECON948 EMPLOYERS AND INDUSTRIAL RELATIONS

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

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 intro-
duction 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

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 Manage-
ment or in the Master of Management.
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; queueing 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

DIPLOMA IN EDUCATION

The Diploma in Education 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. At present the course is for one year full-time, although under certain circumstances arrangements for part-time study may be made. The various subjects involve lectures, seminars, tutorials, individual assignments and group exercises. Demonstrations of teaching methods and practice teaching are provided in co-operation with local schools.

Intending applicants for the Diploma in Education 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 before purchasing text books.

Course Outline

Students are required to complete subjects as set out below, with a total of 48 credit points. Credit points for specific subjects are indicated in brackets. The decision as to whether subjects are offered in first or second session or both, is taken at enrolment time in the light of staff availability.

Australian Education (4)
Educational Psychology (4)
Sociology of Education (4)
Philosophy in Education (4)
Educational Practice (4)
Curriculum Planning and Instructional Design (4)
Communication Skills (3)
Health Education (3)
Physical Education (2)
Electives (4)
Teaching Practice and Field Experience (6)
2 Teaching Methods (3 + 3)

EDUC801 AUSTRALIAN EDUCATION
EDUC802 EDUCATIONAL PSYCHOLOGY
EDUC803 SOCIOLOGY OF EDUCATION
EDUC804 PHILOSOPHY IN EDUCATION
EDUC806 EDUCATIONAL PRACTICE

An appreciation of guiding principles common to the teaching of secondary school children will be gained through study of preparation at course, topic and lesson levels and the utilization of school and community resources; aspects of classroom control and discipline; individual and group techniques of teaching; and evaluation procedures.

EDUC807 AN INTRODUCTION TO CURRICULUM PLANNING AND INSTRUCTIONAL DESIGN

This subject is designed to introduce teacher trainees to fundamentals of curriculum planning and design for instruction.

TEXTBOOKS


**EDUC809 COMMUNICATION SKILLS**

Students are made aware of problems of communication in the classroom, and their own personal competence is improved.

**EDUC810 HEALTH EDUCATION**

Students are given guidance concerning physical and mental health, and informed of resources available in the schools.

**EDUC811 PHYSICAL EDUCATION**

The aim is to provide a basic grounding for the general teacher in physical education and human performance.

**EDUC812 ELECTIVES**

Lectures are offered in a variety of electives designed to provide opportunity for students to pursue some studies in areas of education which are of particular interest to them. The composition of the student group from year to year will partly determine which electives are offered.

**EDUC815 TEACHING PRACTICE**

Students engage in the equivalent of eight weeks in the schools in a teaching practice or field experience situation. Students are expected to plan learning units, observe and take individual lessons, develop classroom routines and controls, test and evaluate pupil learnings, and become acquainted with the general duties of a teacher.

*Methods Courses*

Methods courses aim at providing a treatment of the methodology, curriculum, syllabus and content involved in teaching the appropriate subject. All methods courses have a value of 3 credit points. It is possible that, subject to low demand, some methods may not be offered in any one year.

**EDUC821 SOCIAL SCIENCE I METHOD**

**EDUC822 SOCIAL SCIENCE II METHOD**

**EDUC831 ENGLISH METHOD**

**EDUC832 HISTORY METHOD**

**EDUC841 ENGLISH AS A SECOND LANGUAGE METHOD**

**EDUC842 FRENCH METHOD**

**EDUC843 GERMAN METHOD**

**EDUC844 ITALIAN METHOD**

**EDUC851 MATHEMATICS I METHOD**

**EDUC852 MATHEMATICS II METHOD**

**EDUC861 PRIMARY I METHOD**

**EDUC862 PRIMARY II METHOD**
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EDUC871 SCIENCE I METHOD
EDUC872 SCIENCE II METHOD
EDUC881 ART I METHOD
EDUC882 ART II METHOD

MASTER OF STUDIES IN EDUCATION

Please refer to the Master of Studies Regulations and note the following additions:

1. A person holding an approved Diploma in Education or equivalent qualification shall be deemed to meet the 24 credit point requirements at the 300-level specified in Regulation 3(a).

2. A candidate for the Master of Studies in Education degree, may, with the approval of the Chairperson of the Department of Education, include in his/her program subjects not exceeding 16 credit points in aggregate selected from the Schedule of Graduate Subjects offered by other departments, provided that the Chairperson of the other department approves such selection.

3. A person wishing to use the Master of Studies in Education degree as a qualifying program for admission to the Honours Master of Education will normally be expected;
   (a) to have satisfactorily completed the subject EDUC920 Major Project in Education,
       and
   (b) to have achieved results averaging credit level or better in the Master of Studies Degree.

4. Each 48 credit point program shall include a minimum of either 24 or 32 credit points comprising a major specialization within the degree. The 32 credit point minimum will normally be chosen by students who include EDUC920 Major Project in Education as part of their program. The area of specialization should be chosen from those listed below:

   The remainder of the program can consist of either another major sequence chosen from the areas list, or 16 to 24 credit points of study selected in consultation with relevant academic staff.

   Major Specializations

   A major specialization will normally consist of a minimum of 16 credit points of coursework in the nominated subject area, plus either an 8 credit point Special Topic or the 16 credit point Major Project in Education supervised by the appropriate co-ordinator.

   The nominated areas are:
   (1) BIOMECHANICS
       EDUC963 Biomechanics
       EDUC964 Motor Learning
   (2) CURRICULUM
       EDUC947 Introduction to Curriculum Theory and Development
       EDUC948 Advanced Curriculum Theory and Development
   (3) EDUCATIONAL PSYCHOLOGY
       EDUC940 Educational Psychology A
       EDUC941 Educational Psychology B
(4) EDUCATIONAL SOCIOLOGY
   EDUC942 Educational Sociology A
   EDUC943 Educational Sociology B

(5) HEALTH EDUCATION
   EDUC965 Curriculum Problems in Health Education
   EDUC966 Discipline Studies in Health I

(6) HISTORY OF EDUCATION
   EDUC944 Comparative Education and History of Education
   EDUC952 Introduction to History of Education

(7) LANGUAGE AND LITERACY
   EDUC960 Language Across the Curriculum
   EDUC961 The Anatomy of Reading and Writing
   EDUC962 Introduction to Diagnosis and Remediation in Literacy

(8) PHYSICAL EDUCATION
   EDUC968 Adapted Physical Education

(9) SCHOOL ADMINISTRATION

(10) SPECIAL EDUCATION
   EDUC930 Special Education: Contemporary Issues
   EDUC931 Special Education: Teaching Strategies
   EDUC932 Special Education: A Community Orientation

(11) SPORTS PSYCHOLOGY
   EDUC950 Sports Psychology: Training & Assessment Procedures
   EDUC951 Issues and Trends in Sports Psychology

(12) COMPUTERS IN EDUCATION
   EDUC925 Computers, Curriculum and Pedagogy
   EDUC926 Computers and Cognition

Prospective students should discuss their program with the supervisor listed for their area of interest in the Faculty handbook for postgraduate degrees available from the Faculty.

Students are advised to see the appropriate Faculty handbook for details of 1) actual courses available; and 2) session offered. (Available in the Faculty from October each year.)

Note: Under special circumstances, subjects from the M.Ed Schedule may be taken as part of a Master of Studies in Education.

Textbooks, unless specified, are to be advised.

Effective from 1987 some subjects have been cross-registered between the Master of Management schedule and the Master of Studies in Education schedule. Refer to Schedule of Graduate Subjects for details.

EDUC919 PHILOSOPHY FOR CHILDREN: REASON AND INQUIRY IN THE CURRICULUM

Single or double session; 8 credit points (3 hrs per week on a single session basis; lectures and seminars)
Assessment: Assignments, workshops and field work (as appropriate)

This course will cover the identification and treatment of philosophical issues in the school curriculum, modelling processes of philosophical inquiry through the
building of a community of inquiry. Students taking the course should become more philosophically aware, and better able to direct dialogue and discussion in the classroom. They will also be qualified to teach students the skills involved in critical thinking, reasoning and inquiry. A background in philosophy is not a pre-requisite for this course.

SELECT REFERENCES

A variety of papers to be made available by the lecturer, as well as sample text currently in use in schools, and one or more of the following:


EDUC920 MAJOR PROJECT IN EDUCATION

Single or double session; 16 credit points

Pre-requisite: Satisfactory completion of 16 credit points in an area of educational specialisation offered in the schedule of subjects for the Master of Studies in Education.

Note: EDUC920 is a requirement for any person who, on completion of the Master of Studies in Education, wishes to apply for admission to the Honours Master of Education program.

EDUC925 COMPUTERS, CURRICULUM AND PEDAGOGY

Single session; 8 credit points (3 hrs per week, lectures, seminars and workshops)

Assessment: A variety of student developed assignments

This subject encourages students to identify issues, gather data, analyse information and make recommendations concerning the use of computers in education. This subject applies pedagogical and curriculum issues to computer-based learning.

TEXTBOOK

No prescribed textbook.

EDUC926 COMPUTERS AND COGNITION

Single session; 8 credit points (3 hrs per week, lectures, seminars and workshops)

Assessment: A variety of assignments

Prerequisite: EDUC925 Computers, Curriculum and Pedagogy

Students examine theories of cognition, artificial intelligence and expert systems, so as to assess the potential for computers to be used to change the teaching/learning process. The theme in this subject is information processing, both human and machine.

TEXTBOOK

To be advised.

EDUC969 AN INTRODUCTION TO THE SCIENTIFIC BASIS OF 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
DESCRIPTION OF SUBJECTS - EDUCATION

purpose of this course 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.

TEXTBOOK:
Journal articles and portions of books will be used in lieu of a set text.

EDUC930 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.

EDUC931 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.

EDUC932 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.
EDUC933 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.

EDUC938 INTRODUCTION TO QUALITATIVE RESEARCH

Single or double session; 8 credit points (3 hrs per session on a single session basis)

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.

TEXTBOOK


EDUC939 EDUCATIONAL RESEARCH METHODOLOGY AND DESIGN

Double session; 16 credit points (4 hrs per week: lectures, seminars and tutorials)
Assessment: Assignments and associated projects, optional examination.

The logic of educational research
Descriptive techniques
Inferential techniques
Sampling problems
Validity of experiments in social settings
Statistical and scientific hypotheses
Quasi-experimental designs
Generalizations and predictions
Applications of research to the classroom
Applications of research to education

TEXTBOOK

EDUC940 EDUCATIONAL PSYCHOLOGY TOPIC A

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.

TEXTBOOKS


EDUC941 EDUCATIONAL PSYCHOLOGY TOPIC B

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 differences and mental growth.
- Compensatory education.
- Literacy and numeracy programmes.
- Special topic.

TEXTBOOKS

As for EDUC940.

EDUC942 EDUCATIONAL SOCIOLOGY TOPIC A

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.

- The application of sociological theories to the study of education and the use of sociological methods in educational research.

EDUC943 EDUCATIONAL SOCIOLOGY TOPIC B

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.

- Politics and education policy as it affects the education of school children
- The role of the teacher within the class structure of Australian society
- The education of women and girls
EDUC944 COMPARATIVE EDUCATION AND HISTORY 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.

Systematic study of educational systems selected from Australia, U.S.A., U.K., France, Japan, S.E.Asia and China.
Selected case study analyses 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.

TEXTBOOKS

EDUC945 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

EDUC946 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, optional examination.

Principles of Educational Research.
Descriptive Techniques.
Inferential Techniques.
Problem Identification.
Design and Analysis.
Interpretation of Findings.

TEXTBOOK

EDUC947 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.
Curriculum Theories of
(a) Gwyn and Chase
(b) Hirst and Peters
(c) Saylor and Alexander
(d) Contemporary Australian Theorists.
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.

EDUC948 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.

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.

EDUC951 ISSUES AND TRENDS IN SPORT PSYCHOLOGY

Single session; 8 credit points (52 hrs lectures and seminars)
Assessment: seminar presentations and major report based on empirical or theoretical work.

This course is concerned with the ethical foundations and future development of sport psychology. It will also focus on how personality and anxiety influence sports performance. Topics include: the process of developing and maintaining individual and group motivation; and social-psychological aspects of sport such as aggression, leadership and group dynamics. Discussion also centres on the role of sport and exercise in the development and maintenance of psychological well-being.

TEXTBOOK
EDUC952 AN INTRODUCTION TO THE HISTORY OF EDUCATION

Single or double session; 8 credit points; 3 hrs per week on a single session basis.
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 the social sciences.

EDUC953 RECREATION MANAGEMENT

Single or double session; 8 credit points (lectures, seminars and field experience)
Assessment: assignments, project and research reports.
Prerequisite: Undergraduate recreation and/or permission of lecturer.

This course is concerned with the development of a conceptual framework for recreational management. It provides a study of management theory, relates management principles to recreation and compares management practices in various recreational service agencies.

TEXTBOOK

Students will also draw from an extensive bibliography of primary and secondary literature.

EDUC957 CURRICULUM AND THE TEACHING DISCIPLINES

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures and seminars)
Assessment: Workshop, project, seminar and assignments.

An analysis of the teaching disciplines as a background to curriculum innovation and research in school is the central aim of this course. The analysis will be undertaken within the minimum number of contexts (e.g. administrative, instructional and epistemological) that adequately describe the curriculum paradigm.

EDUC958 CURRICULUM PERSPECTIVES ON ALTERNATIVE EDUCATION

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures and tutorials)
Assessment: Workshop, project, seminar report and assignments.

A critical appraisal and analysis of selected contemporary curriculum issues and practices. The aim of the course is to identify via an attribute paradigm pathways to curriculum reform.

JOURNALS

Curriculum Perspectives
New Education

SELECT REFERENCES

EDUC959 CURRICULUM PRIORITIES IN AUSTRALIAN HIGHER EDUCATION

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures and tutorials)
Assessment: Workshop, project, seminar and assignments.

An examination of curriculum issues and practices in Australian Higher Education. The major focus of this course will be to analyse the role of teacher education as an index of the nature and purposes of research and teaching in higher education.

REFERENCES/JOURNALS
Correy Report
Auchmuty Report
Australian Journal of Teacher Education
The South Pacific Journal of Teacher Education

EDUC960 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.

'Language' as the aim, methodology and content of the curriculum; the place of language within and across the school curriculum from K to 12; literacy and oracy development; the design and administration of school language policies across the curriculum.

TEXTBOOKS
None specified. Students will read from an extensive bibliography of source material across and within the relevant disciplines.

EDUC961 THE ANATOMY OF READING AND WRITING

Single session. First Session; 8 credit points (3 hrs per week on a single session basis; 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.

TEXTBOOKS
Students will be required to read from an extensive bibliography of research articles and journal materials.

EDUC962 INTRODUCTION TO DIAGNOSIS AND REMEDIATION IN LITERACY

Single session; Second session; 8 credit points (3 hrs per week lectures, seminars, tutorials)
Assessment: Assignments, practical work in diagnosis and remediation; optional examination.
Pre-requisite: EDUC961 - The Anatomy of Reading and Writing.

Issues in measurement in literacy education; assessing and diagnosing performance in reading, writing, spelling; designing and implementing remediation in
literacy education.

TEXTBOOKS
None specified — students will draw from an extensive bibliography of selected literature.

EDUC963 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

EDUC964 MOTOR LEARNING

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.

The performance of any motor skill is contingent upon a host of variables, among which are the requirements of the skill and the individual characteristics the performer brings to the activity: e.g., reaction time, spatial awareness, cue perception, kinaesthetic perception, strength, and co-ordination. The purpose of this course is to: (a) review, and, (b) identify the nature of skilled performance and its component variables, and (c) examine the development of these variables with skill acquisition.

TEXTBOOKS

EDUC965 CURRICULUM PROBLEMS AND ISSUES IN HEALTH EDUCATION

Single or double session; 8 credit points (3 hrs per week on single session basis; lectures, seminars, workshops)
Assessment: Assignments, optional examination.
Co-Requisite: EDUC947 - Introduction to Curriculum Theory and Development.

The need to clarify the educational process of health education and identify problems and issues associated with its implementation is an integral part of the curriculum process. This course will examine the concept of health and health education and explore the educator’s role in health instruction in both primary and secondary schools.

TEXTBOOKS
None specified — students will draw from an extensive bibliography of selected primary and secondary literature.
EDUC966 DISCIPLINE STUDIES IN HEALTH I

Single or double session; 8 credit points (3 hrs per week on 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 practice healthful and safe living patterns. This course 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.

EDUC967 CURRICULUM PROBLEMS AND ISSUES IN SECONDARY SCHOOL PHYSICAL EDUCATION

Single or double session; 8 credit points (3 hrs per week on a single session basis; lectures, seminars, workshops)
Assessment: Assignments, optional examination.

The need to understand curriculum design and implementation of physical education at the secondary school level is an important part of the curriculum process. Major problems associated with physical education in the secondary school will be looked at together with current issues which affect present and future curriculum planning.

TEXTBOOKS

None specified - students will draw from an extensive bibliography of selected primary and secondary literature.

EDUC968 ADAPTED PHYSICAL EDUCATION

Single or double session; 8 credit points (3 hrs per week on a single session basis; tutorials & seminars)

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.

EDUC954 SPECIAL TOPIC IN EDUCATION A
EDUC955 SPECIAL TOPIC IN EDUCATION B
EDUC956 SPECIAL TOPIC IN EDUCATION C

Single or double session; 8 credit points (3 hrs per week on a single session basis; tutorials & seminars)
Pre-requisite: Demonstrated expertise in a special area of Educational Practice
200 DESCRIPTION OF SUBJECTS - EDUCATION

as determined by the Head of the relevant School.
Assessment: Project

The special subject topics in Education exist to enable advanced study to be undertaken by practitioners who have already reached an advanced level of performance in the area concerned.

Syllabus will be designed on an individual basis.

TEXTBOOKS

None specified - Reading lists to be arranged in consultation with academic adviser.

HONOURS MASTER OF EDUCATION

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 the University’s Master of Studies in Education Degree with the results averaging credit level or better will normally be eligible for admission to the University’s Honours Master of Education degree (M.Ed.(Hons.)) provided that the program of study in the Master of Studies in Education Degree has included satisfactory completion of the subject, EDUC920 Major Project in Education;

   (b) completed qualifications deemed by the Academic Senate to be the equivalent of the University’s Master of Studies in Education degree with results averaging credit level or better; provided that such qualifications include evidence of satisfactory completion of an educational project equivalent to the University’s subject, EDUC920 Major Project in Education;

   (c) completed the requirements for an approved Bachelor’s degree with Honours and who holds an approved teaching qualification; or

   (d) completed such other qualifications as might be approved by the Academic Senate on the recommendation of the Faculty Dean provided that in the view of the Academic Senate any such person shall have accumulated the equivalent of 48 credit points beyond a Pass degree.

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) Satisfactory completion of a project whose credit point value is 8 together with the satisfactory completion of graduate subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Education degree (Faculty of Education) to the value of 40 credit points; or

   (b) satisfactory completion of a project whose credit point value is 16 together with satisfactory completion of graduate subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Education degree (Faculty of Education) to the value of 32 credit points; or

   (c) a minor thesis embodying the results of an investigation whose credit point value is 24 together with satisfactory completion of
graduate subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Education degree (Faculty of Education) to the value of 24 credit points; or

(d) a thesis embodying the results of an investigation to the value of 48 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. Each candidate for the degree program in 3(a) or 3(b) shall be assigned a supervisor by the Chairperson of the Faculty of Education. 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 Chairperson of the Faculty of Education.

6. A project completed in satisfaction of 3(a) or 3(b) shall be assessed by two examiners appointed by the Chairperson of the Faculty of Education.

Students are advised to see appropriate Faculty handbook for details of:

1) actual courses available, and
2) session offered.

(Available in the Faculty from October of each year.)

Textbooks, unless specified, are to be advised.

EDUC970 EDUCATIONAL PSYCHOLOGY A

*Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures & 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.

EDUC971 EDUCATIONAL PSYCHOLOGY B

*Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures & seminars)*

*Assessment:* assignments, optional examination.

This course offers a detailed enquiry into theories of motivation and achievement motivation.

**TEXTBOOKS**

Although a text will be arranged, wide recourse will be made to the literature available at the commencement of the course.
EDUC972 CURRICULUM STUDIES A

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures & 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.

TEXTBOOKS
None specified: students will draw from an extensive bibliography of selected primary and secondary literature.

EDUC973 CURRICULUM STUDIES B

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures & 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.

EDUC974 EDUCATIONAL ADMINISTRATION AND ORGANISATION A

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures & seminars)
Assessment: assignments, optional examination.

Structure and processes in organisation.
Bureaucracy in Education.
Policy-making.
Educational leadership in a changing society.

TEXTBOOKS

**EDUC975 EDUCATIONAL ADMINISTRATION AND ORGANISATION B**

*Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures & seminars)*

Assessment: assignments, optional examination.

Assessment and accountability of teachers.
Role theory and educational administration.
The economics and administration of education.
The politics of educational administration.

**TEXTBOOKS**

As for EDUC974.

**EDUC976 EDUCATION RESEARCH AND DESIGN OF EXPERIMENTS**

*Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures & seminars)*

Assessment: assignments, optional examination.

This subject is strongly recommended for each MEd candidate unless otherwise recommended by supervisor. Experimental and Quasi-experimental designs for Research; Planning Research; Sampling; Interviewing; Questionnaires; Data Processing; Personality Assessing; Attitude Measurement; Observation and Case Studies; Interpreting Results; Report Writing.

**TEXTBOOKS**


**EDUC978 THE POLITICS OF EDUCATION**

*Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures and seminars)*

Assessment: assignments, optional examination.

The politics of education in modern society. There will be an emphasis on the political role of educational institutions as well as the relationship between political and educational systems. Individual case studies of the politics of national educational systems as well as general theoretical issues of methodology.

**EDUC986 LANGUAGE IN EDUCATION**

*Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures and seminars)*

Assessment: assignments, optional examination.

A consideration of those disciplines and topics which bear upon the place of language in Education: linguistics, psychology of language, sociology of language, philosophy of language, history of language.
TEXTBOOKS

None specified: students will read from an extensive bibliography of source material across and within the relevant disciplines.

EDUC988 THE SOCIOLOGICAL METHOD APPLIED TO EDUCATION

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures and seminars)
Assessment: assignments, optional examination, research project

An examination of the different methods used by sociologists and the relevance of these approaches in educational research.

EDUC989 HISTORICAL RESEARCH IN AUSTRALIAN EDUCATION

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures and seminars)
Assessment: assignment, optional examination

This course 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.

EDUC990 CURRICULUM RESEARCH AND METHODOLOGY

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures and tutorials)
Assessment: Project, workshop, seminar and assignments

An examination of research paradigms as they apply to curriculum innovation and reform. Students will become familiar with a selection of research approaches applicable to the study of a variety of curriculum contexts.

REFERENCES

Journal of Curriculum Studies (U.K.)
Curriculum Perspectives (Aust.)

EDUC991 AUSTRALIAN HIGHER EDUCATION: AN INTERDISCIPLINARY PERSPECTIVE

Single or double session; 8 credit points (8 hrs per week on a single session basis: lectures and tutorials)
Assessment: Workshop, project, seminar and assignments

An examination of curricular contexts in the practices in Australian Higher Education. The aim of this course is to analyse, within a comparative and interdisciplinary perspective, significant recent debates on the theoretical underpinnings of various training paradigms. Special attention will be given to the education of teachers as a central issue in the higher education debate.

EDUC993 THE SOCIOLOGY OF LANGUAGE IN EDUCATION

Single or double session; 8 credit points (3 hrs per week on a single session basis: lectures and seminars)
Assessment: Written assignments, seminar reports.

Language, thought and culture; languages, dialects, varieties and styles. How do

EDUC994 ADVANCED STUDIES IN THE PSYCHOSOCIAL ASPECTS OF ACTIVITY

Single or double session; 8 credit points (3 hrs per week on a single session basis; lectures tutorials, laboratories and field work)
Assessment: written examination, project work and assignments.

Lecture topics are drawn from the behavioural aspects of work, sport and leisure. The material available in any given session will reflect student interests and available staff expertise.

TEXTBOOKS
None specified: students will draw from an extensive bibliography of primary and secondary literature.

EDUC995 ADVANCED STUDIES IN THE BIOPHYSICAL BASES OF MOVEMENT

Single or double session; 8 credit points (3 hrs per 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.

EDUC977 QUALITATIVE RESEARCH AND EVALUATION

This subject will examine the rationale of qualitative research and evaluation paradigms as they focus on the task of improving instructional and curriculum design options, role of qualitative evaluators, data collection strategies, analysis and interpretation of data and communicating the findings.

TEXTBOOKS

EDUC979 SPECIAL TOPIC IN EDUCATION A
EDUC980 SPECIAL TOPIC IN EDUCATION B
EDUC985 SPECIAL TOPIC IN EDUCATION C

Single or double session; 8 credit points (3 hrs per week on a single session basis: tutorials & seminars)
Pre-requisite: Demonstrated expertise in an area of educational practice or theory.
Assessment: Project

The special subject topics in Education exist to enable advanced study to be
undertaken by practitioners who have already reached an advanced level of performance in the area concerned.

**EDUC981 MINOR PROJECT IN EDUCATION**

8 credit points

**EDUC982 MAJOR PROJECT IN EDUCATION**

16 credit points

**EDUC983 MINOR THESIS**

24 credit points

**EDUC984 THESIS**

48 credit points

**EDUC997 ADVANCED STUDIES IN THE SCIENTIFIC BASIS OF HEALTH PROMOTION**

*Single or double session; 8 credit points (3 hrs per session on a single basis)*

While complete agreement on what determines health may be impossible to reach, major progress has been made toward identifying prime determinants of human health and disease. It has been determined that of these determinant's one's behaviour is the most dominant force. An examination of the notion of health behaviour will be undertaken and used as a basis for discussion of theories of health behaviour determination, and the processes of health behaviour change. Emphasis will be on the process of behavioural determination and change in educational settings.

**TEXTBOOK**

Journal articles and portions of books will be used in lieu of a set text.
GRADUATE DIPLOMA IN EDUCATIONAL STUDIES
— 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.

NORMAL PROGRESSION PATTERN

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*These subjects will be offered in first session only each year. Other subjects will be offered in second session only each year.
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

To be advised.

EDCM862 COMPUTER RESOURCES IN TEACHING

Session One; 6 credit points (3 hours per week)
Pre-Requisite: EDCM861
Co-Requisite: EDEF861 and EDEF862

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.

TEXTBOOK

No prescribed textbook.

EDCM863 COMPUTER RESOURCES PROJECT

Session Two; 6 credit points (3 hours per week)
Pre-Requisite: EDCM862
Co-Requisite: EDMA862

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.

TEXTBOOK

No prescribed textbook.

EDEF862 ADVANCED CURRICULUM THEORY AND PRACTICE

Session One; 6 credit points (3 hours per week)
Pre-Requisite: Nil

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

To be advised.
DESCRIPTION OF SUBJECTS - EDUCATIONAL STUDIES 209

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.

TEXTBOOK
No prescribed 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.

TEXTBOOK
No prescribed textbook.

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.

TEXTBOOK
To be advised.

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
To be advised.
GRADUATE DIPLOMA IN EDUCATIONAL STUDIES* — ENVIRONMENTAL EDUCATION

This graduate diploma course will provide teachers with the opportunity to examine the contribution of science and technology to environmental management and to relate this knowledge to the curriculum of the school. The course includes theoretical studies in Resource and the Environment, and Society and the Environment. These theoretical studies will be complemented by a practical strand incorporating field studies.

The course will be conducted on a part-time basis over four sessions. Textbooks to be advised.

*Not on offer in 1987. For content of subjects, see 1985 Calendar, Volume III, or refer to Faculty of Education.

NORMAL PROGRESSION PATTERN

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GRADUATE DIPLOMA IN EDUCATIONAL STUDIES* – 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 1987. For content of subjects, see 1985 Calendar, Vol. III, or refer to Faculty of Education.

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GRADUATE DIPLOMA IN EDUCATIONAL STUDIES
— SCHOOL ADMINISTRATION

This part-time course, offered by the School of Industrial and Administrative Studies, will be conducted over four stages.

The course has been designed to provide exposure to the body of knowledge and skills relevant to the effective practice of school administration and to provide for the development of interpersonal skills and personal value systems. Students will have the opportunity to analyse and evaluate critically existing school management systems and defend a personal philosophy of school organisation and management. Particular emphases will be on the supervisory issues of: curriculum leadership, models of teaching; discipline and change in schools.

NORMAL PROGRESSION PATTERN

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<th>Session</th>
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<tbody>
<tr>
<td>Year 1</td>
<td>Organisations: Theory &amp; Structure.</td>
<td>Organisational Environment:</td>
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<td>Administration: Historical</td>
<td>Contents and Constraints.</td>
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<td></td>
<td>and Philosophical Perspectives.</td>
<td>Dynamics of an Organization.</td>
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<td>Comparative Approaches to Administration.</td>
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<td>Year 2</td>
<td>Dynamics of Administration.</td>
<td>Management of Human Resources.</td>
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<td></td>
<td>Curriculum and School Manage­ment.</td>
<td>Management of Physical and Financial Resources.</td>
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<td>Individual Special Project.</td>
<td>Individual Special Project.</td>
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</table>

Subjects will be presented in this order and students, in order to graduate, must satisfactorily complete all subjects.
CONTENT OF SUBJECTS

AIAE161 ORGANIZATIONS: THEORY AND STRUCTURE

Session One; 6 credit points (3 hours per week)

Through this subject students will examine the sociological antecedents of organizational theory, develop an understanding of the nature and structure of organizations as static entities, examine and develop an appreciation of the advantages and disadvantages of the classical and modern approaches to organizations and utilize the understandings gained to interpret more effectively the administrative role in school.

AIAE162 ADMINISTRATION: HISTORICAL AND PHILOSOPHICAL PERSPECTIVES

Session Two; 6 credit points (3 hours per week)

Through study in this subject students will develop an understanding of administrative approaches and their attachment to the ethos of the larger society, will gain knowledge of basic philosophies and their relationship to education, and will develop from this knowledge a personal educational philosophy.

AIAE163 THE ORGANIZATIONAL ENVIRONMENT: CONTENTS AND CONSTRAINTS

Session One; 6 credit points (2 hours per week)

This subject is designed to provide students with a knowledge and understanding of the external and internal influences acting upon a societal unit such as a school. Consideration will be given to a systems analysis of schools, the external environment of schools, the internal school environment and the single school as system examples.

AIAE261 THE DYNAMICS OF AN ORGANIZATION

Session Two; 4 credit points (2 hours per week)

This subject analyses the characteristics of educational institutions as organisations in action. Consideration will be given to the impact of people on organisations, issues in supervision, the personal dynamics of supervisors, important dynamics in organisations.

AIAE262 COMPARATIVE APPROACHES TO ADMINISTRATION: A CONCEPTUAL OVERVIEW

Session Two; 4 credit points (2 hours per week)

Through studies in this area students will acquire an understanding of the administrative role and its variations and combinations; demonstrate an awareness of the relationships generated between the organizational structure and the administrative perspective and their relevance to organizational problems, and will utilize understandings gained to increase the effectiveness of the administrative process in the school setting.

AIAE263 DYNAMICS OF ADMINISTRATION

Session One; 4 credit points (2 hours per week)

This subject examines in depth the options available for working with people to achieve organisational objectives. Issues to be considered include: human relationships in schools, administrative support to the problems of curriculum development and implementation, promoting change in schools, discipline in schools.
AIAE264 CURRICULUM AND SCHOOL MANAGEMENT

Session One; 3 credit points (2 hours per week)

The ability to identify and analyse problem issues in school administration is essential if the administrator wishes to cope with a dynamic, changing educational environment and/or if the administrator wishes to introduce change or innovation in a controlled and systematic fashion. Through this subject students will acquire the specific knowledge necessary to examine a selected problem issue in school administration, relate that issue to organizational and administrative theory and formulate a procedure for the systematic analysis of the problem.

AIAE361 THE MANAGEMENT OF HUMAN RESOURCES

Session Two; 4 credit points (2 hours per week)

This subject aims to complete a study of the supervisory aspects of school administration by concentrating on more sophisticated aspects of human resources supervision. Aspects to be considered include: human resource supervision, staff development, career stages, job satisfaction, planning effective inservice staff development programs, stress and time management, specific purpose, counselling, confrontation and dispute management.

AIAE362 THE MANAGEMENT OF PHYSICAL AND FINANCIAL RESOURCES

Session Two; 4 credit points (2 hours per week)

Through studies in this subject students will demonstrate an understanding of office administration procedures and devise soundly based principles by which the administrative unit will function; gain a functional knowledge of accounting procedures; develop procedures for the ordering, subsequent purchase and control of stock and equipment; and demonstrate an ability to plan expenditure within realistic constraints and anticipate significant aspects of the budgetary process as it applies to schools.

AIAE363 INDIVIDUAL SPECIAL PROJECT

Session One and Two; 4 credit points (2 hours per week)

Through this subject, students will demonstrate their ability to implement a project significantly related to an aspect of school administration; analyse the results of project within the framework of organizational and administrative theory; and present a substantial written report in which findings are documented.
GRADUATE DIPLOMA IN EDUCATIONAL STUDIES
— READING/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-education-for-English-speakers 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.

Textbooks, unless specified, are to be advised.

Beginning in 1987 students will be enrolled in the revised program which will gradually replace the original program.

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 enrolment.
**NORMAL PROGRESSION PATTERN – (ORIGINAL PROGRAM)**

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<tr>
<th>STAGE</th>
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<td>EDCL864 4 (2)</td>
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<td>The Social &amp; Cultural Context of Learning</td>
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<td></td>
<td>The Comprehension of Language</td>
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<td>The Evaluation of Language</td>
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<td>ENGLISH SECOND LANGUAGE EDUCATION</td>
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<td>EDCL870 6 (3)</td>
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<td>The Assessment of Needs of Second Language Learner</td>
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<td>Program Design &amp; Organisation</td>
<td>EDCL873 4 (2)</td>
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<td>Approaches, Methods and Techniques</td>
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<td>Special Project</td>
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<td>LITERACY EDUCATION</td>
<td>The Anatomy of Reading and Writing</td>
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<td>Measuring, Diagnosing, Evaluating Literacy Development</td>
<td>EDCL867 4 (2)</td>
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<td></td>
<td>Study Proposal</td>
<td>EDCL872 2 (1)</td>
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<td>The Literacy Learning Environment: Resources</td>
<td>EDCL868 4 (2)</td>
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<td>The Literacy Learning Environment: Organisation</td>
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<td>Special Project</td>
<td>EDCL875 4 (2)</td>
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**GRADUATE DIPLOMA IN EDUCATIONAL STUDIES (READING/E.S.L. EDUCATION) – REVISED**

Students beginning in 1987 will enrol in the subjects listed below:

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<tr>
<th>Number</th>
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<td>Language Development II</td>
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<td>The Context of Learning</td>
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<tr>
<td>EDRE863</td>
<td>Literacy Development</td>
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</table>
CONTENT OF SUBJECTS

EDRE860 LANGUAGE DEVELOPMENT I

Session One; 6 credit points
Pre-Requisite: Nil

This subject is designed to develop in students an understanding of the nature of language. It will cover an examination of language in terms of meaning, form and sound, and similarities and differences between spoken and written language.

In addition it will look at the principles underlying evaluation of language.

TEXTBOOK

There will be no set text for this subject.

EDRE861 LANGUAGE DEVELOPMENT II

Session Two; 6 credit points
Pre-Requisite: Nil

In order to teach literacy and English as a second language it is important to understand how languages are learned. This subject will examine first and second language development and the interrelationship between language learning and society. It will also examine the importance of attitudinal factors in successful language learning.

TEXTBOOK


EDRE862 THE CONTEXT OF LEARNING

Session One; 6 credit points (3 hours per week)
Pre-Requisite: Nil
Co-Requisite: Nil

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.

REFERENCES


EDRE863 LITERACY DEVELOPMENT

Session Two; 6 credit points
Pre-Requisite: Nil

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.
TEXTBOOKS


**EDCL870 FOUNDATIONS OF ENGLISH AS A SECOND LANGUAGE EDUCATION**

*Session One; 6 credit points (3 hours per week)*
*Co-Requisite: EDCL861 and EDCL862*

In order to apply the general principles covered in the core subjects about language, language development, and the social context of language to ESL education in Australia, students must first understand the nature of Australian society, and the factors affecting learning English as a second language. This subject is designed to assist students to develop those understandings.

**EDCL871 ASSESSMENT OF NEEDS OF SECOND LANGUAGE LEARNERS**

*Session One; 4 credit points (2 hours per week)*
*Co-Requisite: EDCL861 and EDCL862*

This subject is designed to develop skills in gathering background information about children, identifying language demands of situations, and assessing English Language proficiency. Students will learn to relate proficiency assessments to perceived language demands and relevant background information, in order to identify learners' needs and allocate priorities for program design.

**EDCL866 MEASURING, DIAGNOSING, EVALUATING LITERACY DEVELOPMENT**

*Session One; 6 credit points (3 hours per week)*
*Co-Requisite: EDCL861 and EDCL862*

This subject is designed to develop skills in the evaluation of reading and writing performance. Students will be introduced to a wide range of formal and informal evaluation instruments and procedures which they will be expected to use and assess. The knowledge and skills acquired in this subject will be of critical importance in the successful completion of the practical work required in the final session.

**TEXTBOOK**


**EDCL867 THE ANATOMY OF READING AND WRITING**

*Session One; 4 credit points (2 hours per week)*
*Co-Requisite: EDCL861 and EDCL862*

This subject is designed to develop a thorough understanding of the reading and writing processes through a detailed analysis of the reading and writing behaviours and processes that learners use together with a critical examination of relevant research into the nature of the reading and writing processes.

**TEXTBOOKS**

DESCRIPTION OF SUBJECTS - EDUCATIONAL STUDIES


EDCL872 STUDY PROPOSAL

Session One; 2 credit points (1 hour per week)
Pre-Requisite: Any three of EDCL861, EDCL862, EDCL863, EDCL864 and EDCL865

A mandatory requirement of the course is that all students should undertake an individual study project through which they can demonstrate their theoretical and practical mastery of the subjects studied. This subject is intended to prepare students to undertake such a project.

TEXTBOOK

No prescribed textbook.

EDCL873 PROGRAM DESIGN AND ORGANISATION IN ENGLISH AS A SECOND LANGUAGE EDUCATION

Session Two; 4 credit points (2 hours per week)
Pre-Requisite: EDCL861
Co-Requisite: EDCL864

This subject will develop an understanding of the relationship between ESL education, the whole school curriculum, the community and the range of organisational models for ESL education as a basis for planning and implementing effective ESL programs.

EDCL874 APPROACHES, METHODS AND TECHNIQUES IN ENGLISH AS A SECOND LANGUAGE EDUCATION

Session Two; 4 credit points (2 hours per week)
Pre-Requisite: EDCL861
Co-Requisite: EDCL864

This subject is designed to develop an understanding of a range of approaches to the teaching of English as a second language. Students will become aware of the variety of techniques which can be used in teaching different aspects of language. They will be expected to develop skills in selecting, evaluating, adapting and developing materials for use in ESL education.

EDCL868 THE LITERACY LEARNING ENVIRONMENT: RESOURCES

Session Two; 4 credit points (2 hours per week)
Pre-Requisite: EDCL863
Co-Requisite: EDCL864, EDCL865

This subject will concentrate on making students familiar with the range of materials available for the teaching of reading. The importance of using literature in the classroom will be stressed. Students will be asked to consider children's reading interest and the criteria necessary to select suitable materials for classroom use.

EDCL869 THE LITERACY LEARNING ENVIRONMENT: ORGANISATIONS AND PRACTICE

Session Two; 4 credit points (2 hours per week)
Pre-Requisite: EDCL863
Co-Requisite: EDCL864, EDCL865
220 DESCRIPTION OF SUBJECTS - EDUCATIONAL STUDIES

This subject is designed to make students aware of a range of approaches to the teaching of literacy and to develop an understanding of the theoretical bases for these approaches. Students will be made familiar with a variety of techniques which can be used in teaching reading.

TEXTBOOKS


EDCL875 SPECIAL PROJECT

Session Two; 4 credit points
Pre-Requisite: EDCL872
Co-Requisite: EDCL870 and EDCL871 or EDCL866 or EDCL867

A graduate of this subject must demonstrate the ability to examine a practical problem within the broad context of language education. In the previous session each student was required to develop a proposal designed to investigate such a problem in relation to either Literacy Education for English Speakers education or ESL education. In this subject students will be expected to conduct a study based on their proposal and to analyse the results. A substantial report on this individual project will be required from each student.

TEXTBOOK

No prescribed textbook.
GRADUATE DIPLOMA IN EDUCATIONAL STUDIES* – 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 1987. For content of subjects, see 1985 Calendar Vol. III, or refer to Faculty of Education.

NORMAL PROGRESSION PATTERN

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<th>SUBJECT</th>
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<td>Research Project</td>
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<td>Complex Variables</td>
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<td>Microcomputing</td>
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<td>Geometry</td>
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<td>Mathematics Statistics</td>
<td>EDMA875 6 (3)</td>
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<td>Total Credit Points &amp; Hours Per Week</td>
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HONOURS MASTER OF ENGINEERING

Under the Regulations for the degree of Honours Master of Engineering, candidates may meet the major requirements by satisfactorily completing:

(a) a thesis embodying the results of an investigation; or

(b) a study comprising formal course work; or

(c) study comprising formal course work and a minor thesis.

(No new candidates for the degree of Master of Engineering Science will be accepted; so graduates wishing to undertake additional formal studies in electrical engineering will now be able to do so by following one of the three prescriptions (a), (b) or (c) 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:

(i) A nominal 6 year, part time pass degree e.g. BSc (Eng).

(ii) A nominal 4 year, full time pass degree e.g. BE.

(iii) A nominal 6 year, part time degree with Merit.

(iv) A nominal full time, 4 year degree with Honours.

Those in categories (iii) and (iv) qualify for entry under Section 6(1) of the Honours Masters Degree Regulations, while those in sections (i) and (ii) must seek entry under Section 6(2).

**Entry Under Section 6(1) - Graduates with an Honours Degree at a standard of Class II, Division 2 or higher**

Under Section 6(1) of the Honours Masters Degree Regulations, candidates must accumulate a total of not less than 48 credit points by the successful completion of subjects from the Schedule of Graduate Subjects, which are described below.

**Entry Under Section 6(2) - Graduates with a Degree below a standard of Class II, Division 2**

Under Section 6(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 (i) 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 (i) and (ii) will enrol in ELEC999 ADVANCED TOPICS IN ENGINEERING.

In any year a restricted range of topics only will be offered, both in ELEC999 and from other postgraduate subjects, so 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. Formal postgraduate lectures normally begin at the end of March.

Subject to the approval of the Departmental Head and the Graduate Studies Committee, courses offered by other Departments will be acceptable for the Honours Masters course in Electrical Engineering.
Subjects

There are no exclusions, pre-requisites or co-requisites within the subjects offered.

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.
DESCRIPTION OF SUBJECTS - ELECT. & COMP. ENGINEERING

**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
DESCRIPTION OF SUBJECTS - ELECT. & COMP. ENGINEERING 225

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
HONOURS MASTER OF ARTS

ENGL999 Major Thesis 48 credit points

See Note at the beginning of the section Description of Subjects.
DIPLOMA IN EUROPEAN STUDIES

The purpose of the Graduate Diploma in 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 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 European 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 European 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 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 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 Diploma is on the recommendation of the Head of the Department of European Languages who shall assess the applicant's aptitude for the course.

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:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>EURO913</td>
<td>Advanced Topics in French</td>
<td>48 pts</td>
</tr>
<tr>
<td>EURO923</td>
<td>Advanced Topics in French and Italian</td>
<td>48 pts</td>
</tr>
<tr>
<td>EURO953</td>
<td>Advanced Topics in Italian</td>
<td>48 pts</td>
</tr>
</tbody>
</table>

They then proceed to:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>EURO903</td>
<td>Major thesis</td>
<td>48 pts</td>
</tr>
</tbody>
</table>

Students entering the program with an honours degree at a standard of at least Class II, Division 2 will be required to complete only:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>EURO903</td>
<td>Major thesis</td>
<td>48 pts</td>
</tr>
</tbody>
</table>

Details of the content of the following subjects are available from the Chairman of the Department of European Languages:

EURO913
EURO923
EURO953
MASTER OF STUDIES IN 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 EURO913: Advanced topics in French.

3) For details refer to the regulations for the Master of Studies degree.

MASTER OF STUDIES IN 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 EURO953: Advanced topics in Italian.

3) For further details refer to the regulations for the Master of Studies degree.

MASTER OF STUDIES IN 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 EURO923: Advanced topics in French and Italian.

3) For further details refer to the regulations for the Master of Studies degree.
Diploma in Geography

The graduate Diploma in Geography offers graduates lacking a major strand of Geography in their degree the opportunity to acquire competence in the discipline. Alternatively, Geography graduates may enrol in the program in order to update, broaden and/or intensify their knowledge, e.g. for teaching, or to equip themselves for work in applied fields such as environmental, urban, regional or social planning. In addition to the University’s regulations for graduate diplomas, candidates for the Diploma in Geography shall:

i) complete Geography subjects to a value of not less than 48 credit points from those listed in the Arts 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 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 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 programs approved by the Head of Department before enrolling.

iv) successfully complete the diploma program in not more than 4 academic sessions.

Honours Master of Arts by Course Work

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 post-graduate 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 Local Government or in Planning Consultancies where an up to date knowledge of urban, social and environmental matters is imperative.

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.

Credit Points

Normally,

GEOG901  The Nature and Development of Geography  12
230 DESCRIPTION OF SUBJECTS - GEOGRAPHY

and

three of the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG902</td>
<td>Agricultural Geography</td>
<td>12</td>
</tr>
<tr>
<td>GEOG903</td>
<td>Asian Development Problems</td>
<td>12</td>
</tr>
<tr>
<td>GEOG904</td>
<td>Population Dynamics</td>
<td>12</td>
</tr>
<tr>
<td>GEOG905</td>
<td>Social Geography</td>
<td>12</td>
</tr>
<tr>
<td>GEOG906</td>
<td>Transport Systems</td>
<td>12</td>
</tr>
<tr>
<td>GEOG907</td>
<td>Regional Planning</td>
<td>12</td>
</tr>
<tr>
<td>GEOG908</td>
<td>Urban Analysis</td>
<td>12</td>
</tr>
<tr>
<td>GEOG909</td>
<td>Regional Analysis</td>
<td>12</td>
</tr>
<tr>
<td>GEOG910</td>
<td>Economic Geography</td>
<td>12</td>
</tr>
<tr>
<td>GEOG911</td>
<td>Australian Historical Geography</td>
<td>12</td>
</tr>
<tr>
<td>GEOG912</td>
<td>Biogeography</td>
<td>12</td>
</tr>
<tr>
<td>GEOG913</td>
<td>Soils and Soil Landscapes</td>
<td>12</td>
</tr>
<tr>
<td>GEOG914</td>
<td>Environmental Assessment and Planning</td>
<td>12</td>
</tr>
<tr>
<td>GEOG915</td>
<td>Slope Form and Process</td>
<td>12</td>
</tr>
<tr>
<td>GEOG916</td>
<td>Surface Hydrology</td>
<td>12</td>
</tr>
<tr>
<td>GEOG917</td>
<td>Channel Form and Process</td>
<td>12</td>
</tr>
<tr>
<td>GEOG918</td>
<td>Cainozoic Geomorphology</td>
<td>12</td>
</tr>
<tr>
<td>GEOG919</td>
<td>Climate</td>
<td>12</td>
</tr>
<tr>
<td>GEOG920</td>
<td>Evolution of Coastal Landforms</td>
<td>12</td>
</tr>
<tr>
<td>GEOG921</td>
<td>Curriculum Studies in Geography ‘A’</td>
<td>12</td>
</tr>
<tr>
<td>GEOG922</td>
<td>Curriculum Studies in Geography ‘B’</td>
<td>12</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG923</td>
<td>Minor Thesis in Geography</td>
<td>24</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG933</td>
<td>Research Project A</td>
<td>12</td>
</tr>
<tr>
<td>and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG934</td>
<td>Research Project B</td>
<td>12</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG935</td>
<td>Special Research Project</td>
<td>24</td>
</tr>
<tr>
<td>and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(ii)</td>
<td>two of the following</td>
<td></td>
</tr>
<tr>
<td>GEOG924</td>
<td>Advanced Topics in Economic Geography</td>
<td>12</td>
</tr>
<tr>
<td>GEOG925</td>
<td>Advanced Topics in Social Geography</td>
<td>12</td>
</tr>
<tr>
<td>GEOG926</td>
<td>Advanced Topics in Urban Geography</td>
<td>12</td>
</tr>
<tr>
<td>GEOG927</td>
<td>Advanced Topics in Coastal Geomorphology</td>
<td>12</td>
</tr>
<tr>
<td>GEOG928</td>
<td>Advanced Topics in Fluvial Geomorphology</td>
<td>12</td>
</tr>
<tr>
<td>GEOG929</td>
<td>Advanced Topics in Environmental Management</td>
<td>12</td>
</tr>
<tr>
<td>GEOG930</td>
<td>Advanced Topics in the Evolution of Landscape</td>
<td>12</td>
</tr>
<tr>
<td>GEOG931</td>
<td>Advanced Topics in Biogeography</td>
<td>12</td>
</tr>
<tr>
<td>GEOG932</td>
<td>Advanced Curriculum Studies in Geography</td>
<td>12</td>
</tr>
</tbody>
</table>
DESCRIPTION OF SUBJECTS - GEOGRAPHY

**OR**

B.

GEOG999 Major Thesis

48

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.

**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 12

and

36 credit points from the following subjects

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG912</td>
<td>Biogeography</td>
<td>12</td>
</tr>
<tr>
<td>GEOG913</td>
<td>Soils and Soil Landscapes</td>
<td>12</td>
</tr>
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<td>GEOG914</td>
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<td>12</td>
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<td>GEOG915</td>
<td>Slope Form and Process</td>
<td>12</td>
</tr>
<tr>
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<td>12</td>
</tr>
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<tr>
<td>GEOG918</td>
<td>Cainozoic Geomorphology</td>
<td>12</td>
</tr>
<tr>
<td>GEOG919</td>
<td>Climate</td>
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</tr>
<tr>
<td>GEOG920</td>
<td>Evolution of Coastal Landforms</td>
<td>12</td>
</tr>
</tbody>
</table>

**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 24

and

two of the following

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG927</td>
<td>Advanced Topics in Coastal Geomorphology</td>
<td>12</td>
</tr>
<tr>
<td>GEOG928</td>
<td>Advanced Topics in Fluvial Geomorphology</td>
<td>12</td>
</tr>
<tr>
<td>GEOG929</td>
<td>Advanced Topics in Environmental Management</td>
<td>12</td>
</tr>
</tbody>
</table>
DESCRIPTION OF SUBJECTS - GEOGRAPHY

Credit Points

GEOG930 Advanced Topics in the Evolution of Landscape 12
GEOG931 Advanced Topics in Biogeography 12

OR

B.

GEOG999 Major Thesis 48

All subjects involve up to 4 contact hours per week. Subject availability and content will vary from year to year depending on staffing levels.

MASTER OF STUDIES IN GEOGRAPHY

The Department of Geography offers a program of postgraduate level subjects which leads to the degree of Master of Studies in 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 Master of Arts 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

Credit Points

Normally

GEOG951 The Nature and Development of Geography 12

and

three of the following

GEOG952 Agricultural Geography 12
GEOG953 Asian Development Problems 12
GEOG954 Population Dynamics 12
GEOG955 Social Geography 12
GEOG956 Transport Systems 12
GEOG957 Regional Planning 12
GEOG958 Urban Analysis 12
GEOG959 Regional Analysis 12
GEOG960 Economic Geography 12
GEOG961 Australian Historical Geography 12
GEOG962 Biogeography 12
GEOG963 Soils and Soil Landscapes 12
GEOG964 Environmental Assessment and Planning 12
GEOG965 Slope Form and Process 12
GEOG966 Surface Hydrology 12
GEOG967 Channel Form and Process 12
GEOG968 Cainozoic Geomorphology 12
GEOG969 Climate 12
GEOG970 Evolution of Coastal Landforms 12
GEOG971 Curriculum Studies in Geography 12

All subjects involve up to 4 contact hours per week. Subject availability and content will vary from year to year depending on staff availability.
DIPLOMA IN COAL GEOLOGY

This course will provide

(a) a mechanism which permits practising geologists within the industry to acquire the knowledge necessary to improve their performance, and

(b) holders of a general geology degree to specialize in an expanding field of employment.

The course will be an in-service 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-

(a) have a degree with a major in Geology from the University of Wollongong, or an approved degree from another tertiary institution; or

(b) 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-

Part 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).

Part 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.

HONOURS MASTER OF SCIENCE IN 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 thesis work.

The assessment of the student’s performance in the course shall be made by the Graduate Studies Committee 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 GEOL981 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 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. The division of the thesis into two sections is to assist supervision of thesis work, since the course is designed essentially for part-time students.

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.

HONOURS MASTER OF SCIENCE

Introduction and Objectives

The rapid development of earth sciences has produced a need for postgraduate coursework. The courses offered by the 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.

Subjects to be offered each year will depend upon student and staff availability.

Entry to the Course

Entry is subject to the approval of the Academic Senate on the advice of the Head, Department of Geology.

Selection of Subjects

Students must consult the Head, Department of Geology, for approval of their proposed choice of subjects.
**Strands**

The following strands are available although all subjects are not on offer in any given year. The 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: 8 points
   - GEOL916 - Organic Geochemistry: 6 points
   - GEOL917 - Aspects of Petroleum Geology: 12 points
   - GEOL982 - The conditions of Peat Formation: 6 points
   - GEOL983 - Coalification, Coal & Mineral Analysis: 6 points
   - GEOL984 - Coal-Basin setting & Analysis: 6 points
   - GEOL950 - Minor thesis: 18 points
   - GEOL999 - Major Thesis: 48 points

2. **Igneous and metamorphic petrology**
   
   - GEOL905 - Mathematical Geology: 6 points
   - GEOL906 - Mineral Paragenesis: 6 points
   - GEOL914 - Volcanology: 6 points
   - GEOL910 - Advanced Topics in Geology A: 12 points
   - GEOL950 - Minor thesis: 18 points
   - GEOL999 - Major thesis: 48 points

3. **Sedimentology**
   
   - GEOL905 - Mathematical Geology: 6 points
   - GEOL906 - Metamorphism: 6 points
   - GEOL908 - Sedimentology: 6 points
   - GEOL984 - Coal Basin Setting and Analysis: 6 points
   - Either GEOL903 Biostratigraphy, OR GEOL915 Structure and Tectonics: 6 points
   - GEOL950 - Minor Thesis: 18 points
   - GEOL999 - Major Thesis: 48 points

4. **Structural Geology and Tectonics**
   
   - GEOL915 - Structures and Tectonics: 6 points
   - GEOL907 - Geophysics: 6 points
   - GEOL912 - Advanced topics in Geology C: 6 points
   - GEOL950 - Minor Thesis: 18 points
   - GEOL999 - Major Thesis: 48 points
   
   and any 12 credit points from:
   
   - GEOL986 - Mining Coal: 6 points
   - GEOL984 - Coal-basin setting and analysis: 6 points
   - GEOL917 - Aspects of Petroleum Geology: 12 points
   - GEOL906 - Metamorphism: 6 points
   - GEOL908 - Sedimentology: 6 points
   - GEOL985 - Geological and Geophysical Exploration: 6 points

5. **Palaeontology and Stratigraphy**
   
   - GEOL905 - Mathematical geology: 6 points
   - GEOL903 - Biostratigraphy: 6 points
   - GEOL908 - Sedimentology: 6 points
   - GEOL910 - Advanced topics in Geology A: 12 points
   - GEOL950 - Minor Thesis: 18 points
   - GEOL999 - Major Thesis: 48 points

**Pre-Requisites**

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


GEOL950 THESIS

18 credit points

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 petro-
graphic 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 determinations, 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.
240 DESCRIPTION OF SUBJECTS - GEOLOGY

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 hydrocarbons. 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 to undergo 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.

**GEOL 988 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 studied within the overall framework of coal mining and utilization.

**GEOL989 THESIS**

30 credit points

**GEOL990 ADVANCED TOPICS IN GEOLOGY**

*Double Session Subject; 48 credit points (12 hrs per week including 2 seminar hrs and some project work)*

*Assessment*: formal examinations, tests, assignments and where appropriate, field and laboratory work.

Students will take a selection of the following topics at advanced level. The selection of topics will be subject to the approval of the Chairman of Department of Geology and will be subject to their availability in any given year.

Topics from:

**GEOL999 MAJOR THESIS**

48 credit points
HISTORY

HONOURS MASTER OF ARTS

HIST973  Major Thesis  48 credit points

See Note at the beginning of the section Description of Subjects.

In addition to completing a major thesis, postgraduate students in the Department of History 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 per cent of the seminars offered, and part-time postgraduate students about 35 per cent. 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.

MASTER OF STUDIES IN HISTORY

The Department of History offers a program of postgraduate level subjects leading to the degree of Master of Studies in 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 following single session courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Points</th>
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</thead>
<tbody>
<tr>
<td>HIST901</td>
<td>Australian Economic History 1850-1930 (First Session)</td>
<td>12</td>
</tr>
<tr>
<td>HIST902</td>
<td>Australian Economic History 1930-1985 (Second Session)</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>
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<tr>
<td>HIST925</td>
<td>Total War in Europe II, 1939-1945</td>
<td>12</td>
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<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>

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.
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

Reserve Bank, Occasional Papers 8A and 8B.

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


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 war, the Italian volte face, the various military fronts (including France, the East, the Southern fronts, and the war at sea) and the effect of new technology. Detailed attention is devoted to the social, political and economic consequences of the war, 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 major European civil war of the 20th Century. Special attention is devoted to the military history of the war, 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 war in North Africa and southern Europe, and resistance in Nazi-occupied Europe. Also considered are the communization of Eastern Europe, the origins of the Cold War, United States dominance in Western Europe, and the birth of "welfare capitalism".

PRELIMINARY READING

Liddell-Hart, B.H. History of the Second Wo

**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 word 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**


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, Motor Behaviour, Psychology of Sport, and Therapeutic Exercise.

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 selected from the Schedule of Graduate Subjects at the Honours Masters level, of which at least 24 credit points must be from Human Movement Science, together with a thesis embodying the results of and investigation on an approved topic to the value of 48 credit points. Students must consult the 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.

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 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
   Sociology of Leisure

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 selected from the Schedule of Graduate Subjects at the Honours Masters level, of which at least 24 credit points must be in Human Movement Science, together with a thesis embodying the results of and investigation on an approved topic to the value of 48 credit points. Students must consult the 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
DESCRIPTION OF SUBJECTS - HUMAN MOVEMENT SCIENCE

thesis embodying the results of an investigation of an approved topic to the value of 48 credit points.

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 presentations, major report

This course is concerned with the application of instruments used in the practice of sport psychology for assessing motivation, anxiety, mood states, cohesion, attributions, attentional focus and behaviour. In addition, experience will be given towards developing psychological skills training programs for sporting situations. The aim of the course is to provide 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

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 upon the development and maintenance of psychological well being.

TEXTBOOKS

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.
HSHM911 SPECIAL TOPIC IN HUMAN MOVEMENT SCIENCE A

HSHM912 SPECIAL TOPIC IN HUMAN MOVEMENT SCIENCE B

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.
INDUSTRIAL AND ADMINISTRATIVE STUDIES

The School offers the Graduate Diploma in Business Information Systems, the Graduate Diploma in Occupational Health and Safety and the Graduate Diploma in Educational Studies (School Administration).* In addition a group of subjects are offered by the School which may be studied as part of the Master of Management course.

* For School Administration subject descriptions refer to the section 'Educational Studies' under the heading Description of Subjects.

GRADUATE DIPLOMA IN BUSINESS INFORMATION SYSTEMS

This course, offered by the School of Industrial and Administrative Studies, aims to provide graduates from a recognized tertiary course, a program of studies which will enable them to function as an information systems professional in a variety of capacities within an organization 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:

a) In accordance with the general regulations governing graduate diplomas, candidates for the Graduate Diploma in Business Information Systems must have been admitted to the degree of Bachelor in the University or another approved institution.

b) 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.

c) In special circumstances a person may be permitted to register as a candidate for this Graduate Diploma, if he/she submits evidence of such academic and professional attainment deemed equivalent to the requirements above.

d) Notwithstanding the above conditions, a candidate who has not previously attained a proficiency in computer programming at a level acceptable to the School will be required to do a 'bridging' course in introductory computing prior to entry into the course.

Course Duration

Currently the course is available only by part-time study over four sessions (two years), in which each student takes 2 subjects in any session.

The Course Structure

The Graduate Diploma in 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.

f) Subject to the approval of the Head of the School of Industrial and 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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prereq.</th>
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</thead>
<tbody>
<tr>
<td>AICA901</td>
<td>Computer Hardware/Software Systems</td>
<td>Nil</td>
</tr>
<tr>
<td>AICA902</td>
<td>Structure of Programs and Data</td>
<td>Nil</td>
</tr>
<tr>
<td>AICA311</td>
<td>Data Management Systems</td>
<td>AICA902</td>
</tr>
<tr>
<td>AICA312</td>
<td>Data Communication Systems</td>
<td>AICA901</td>
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</table>

**Group B: Business Systems Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prereq.</th>
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</thead>
<tbody>
<tr>
<td>AICA903</td>
<td>Business Data Processing Systems</td>
<td>Nil</td>
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<tr>
<td>AICA904</td>
<td>Information Analysis</td>
<td>Nil</td>
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<tr>
<td>AICA905</td>
<td>Structured Systems Design</td>
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<tr>
<td>AICA313</td>
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**Group C: Organizational and Administrative Studies**

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<th>Course Code</th>
<th>Course Title</th>
<th>Prereq.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AICA906</td>
<td>Information in Organizations</td>
<td>Nil</td>
</tr>
<tr>
<td>AICA314</td>
<td>Information Systems: Policy and Management</td>
<td>AICA904</td>
</tr>
<tr>
<td>ACCY901</td>
<td>Accounting for Managers</td>
<td>Nil</td>
</tr>
<tr>
<td>AIIH901</td>
<td>Organizational Behaviour</td>
<td>AIIH901</td>
</tr>
<tr>
<td>BPOL961</td>
<td>Organizational Change and Development</td>
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<tr>
<td>ECON228</td>
<td>Quantitative Decision Methodologies</td>
<td>12cpMaths</td>
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</table>

**Group D: Applications or Specializations**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>AICA907</td>
<td>Business Productivity Software</td>
<td>AICA902</td>
</tr>
<tr>
<td>AICA908</td>
<td>Intelligent Tutoring Systems</td>
<td>AICA902</td>
</tr>
<tr>
<td>AICA909</td>
<td>Office Automation</td>
<td>AICA901</td>
</tr>
<tr>
<td>CSCI954</td>
<td>Artificial Intelligence (Knowledge-based Systems)</td>
<td>AICA902</td>
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</tbody>
</table>

**Group E: Case Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AICA910</td>
<td>Case Studies in Business Information Systems</td>
<td>24cp &amp;</td>
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<td>Coreq:</td>
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<td></td>
<td>AICA314</td>
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</tbody>
</table>

*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.
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 OF 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.

TEXTBOOK


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 organizational implications of such integration and automation. The use of commonly-used productivity tools such as spreadsheets, database management systems, and integrated software to solve business data processing problems.

TEXTBOOK


AICA904 INFORMATION ANALYSIS

Second 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 organizations. 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.

**TEXTBOOK**


**AICA905 STRUCTURED SYSTEMS DESIGN**

*First session; 6 credit points (3 hrs lecture/tutorial per week)*

*Pre-requisite: AICA904*

*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 organization's requirements to develop a fully designed business system. The subject uses the techniques developed in AICA904 Information Analysis to develop a coherent plan such that the business requirements of an organization can be fulfilled.

**TEXTBOOK**


**AICA906 INFORMATION IN ORGANIZATIONS**

*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 organizations and how such systems relate to organizational objectives and structures. Topics covered include: the systems concepts in an organization; information flows; nature of information systems in organizations; techniques and skills in representing system structures; and integration of information systems into the organizational structure. Examples will be drawn from business organizational settings wherever possible.

**TEXTBOOK**

To be advised.

**AICA907 BUSINESS PRODUCTIVITY SOFTWARE**

*First session; 6 credit points (3 hrs lecture/tutorial per week)*

*Pre-requisite: AICA902*

*Assessment: Examination, assignments and seminar paper*

This subject introduces students to Fourth Generation software and productivity tools, the selection and utilization of such tools, with an in-depth study in at least one such software package. It also considers the impact of productivity software both now and in the future, on end-users, on data processing professionals, and on the organization, with particular emphasis on the needs of the business organization.

**TEXTBOOK**

To be advised.

**AICA908 INTELLIGENT TUTORING SYSTEMS**

*Second session; 6 credit points (3 hrs lecture/tutorial per week)*

*Pre-requisite: AICA902*

*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 ad-
vances 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)*

*Pre-requisite: AICA901*

*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.

**TEXTBOOK**


**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: AICA314*

*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.

**TEXTBOOK**

No recommended text.

**GRADUATE DIPLOMA IN OCCUPATIONAL HEALTH AND SAFETY**

This is a 2 year part-time course offered by the School of Industrial and Administrative Studies which provides graduates from any recognized tertiary courses with formal postgraduate studies in aspects of health and safety in occupational settings. The overall aim of the course is to develop graduates who can fulfil a role as management personnel trained to develop Health and Safety programs; and stimulate appropriate attitudes and action towards improved health and safety through all levels of management, in their organizations.

The course offers a set of subjects designed to acquaint students with the major fields of study relating to the promotion of health, the design of safe 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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Study Area</th>
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<tbody>
<tr>
<td>Organizational Behaviour</td>
<td>Occupational Health and Safety Law*</td>
</tr>
<tr>
<td>Environmental and Occupational Health*</td>
<td>Quantitative Methods*</td>
</tr>
<tr>
<td>Occupational Hazards I*</td>
<td>Cultural Studies</td>
</tr>
<tr>
<td>Communication*</td>
<td>Occupational Hazards II</td>
</tr>
<tr>
<td>Rehabilitation</td>
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</tbody>
</table>

Students will need to study 8 of the above subjects and MUST study the subjects marked with an *.

AIIH901 ORGANIZATIONAL BEHAVIOUR

6 credit points (3 hrs/week lecture/tutorial)
Assessment: assignments, tutorials, examinations
This subject will introduce the behaviour of individuals and groups in organizations by providing an analysis of organizational behaviour and styles.
Not to count with AIAC901 or BPOL910 Organizational 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 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 organizational 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 Rehabilitation OR AIIH901 Organizational Behaviour
  AIIH912
- Session 2: AIIH906 Communication and AIIH916 Occupational Hazards II OR AIIH904 Cultural Studies
MASTER OF MANAGEMENT

The following subjects offered by the School of Industrial and Administrative Studies may be studied as part of the Master of Management conducted by the Department of Management.

AIAE901 INTRODUCTION TO STAFF DEVELOPMENT

First session; 6 credit points

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; organizational vs individual bases for staff development; motivation or incentive based theories; specific strategies of approaches to staff development including organizational structures, incentives and rewards which increase professional commitment in employees.

RECOMMENDED READING


AIAE902 IMPLEMENTATION OF STAFF DEVELOPMENT

Second session; 6 credit points

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 organizations; evaluation and validation strategies for staff development.

RECOMMENDED READING


AIAE903 SPECIAL ISSUES IN STAFF DEVELOPMENT

First session; 6 credit points
Pre-requisite: AIAE901 and AIAE902

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 STRESS AND THE ADMINISTRATOR

First session; 6 credit points

This subject examines the ever-increasing problem of stress and its impact on
DESCRIPTION OF SUBJECTS - INDUST. & ADMIN. STUDIES

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 THE ADMINISTRATION OF ORGANISATIONAL CHANGE

Second session; 6 credit points

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; 6 credit points

This subject enables the study of an approved topic in educational administration, 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

Industrial Relations is interdisciplinary.

For subjects offered, see the Schedule of Graduate Subjects under Industrial Relations and for a description of subjects, see this section under Economics.
Diploma in Management

In accordance with the general regulations for graduate diplomas, candidates for the Diploma in Management 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 Diploma, and aggregating 48 credit points. The overall course of study for the Diploma is to be approved by the Head, Department of Management. No credit from previous study is permitted.

The purpose of the Diploma in Management is to provide an education with an applied emphasis at post graduate level in the several functional areas of management suitable for “generalists” in management.

The Diploma may only 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.

Master of Management

The objective of this degree is to enable graduates over a period of three years part-time study, undertaken whilst working, 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 ten compulsory subjects of six credit points each, plus two optional subjects. The compulsory subjects embrace the main areas and there is also an opportunity to select optional subjects in areas of special interest. In addition there are two special topics that can form the basis of a limited project which may be undertaken in company.

Specific requirements for the Master of Management

Entry: University degree or equivalent.

Length: Three years part-time, 72 credit points.
Subjects for the first year correspond to those compulsory for the Diploma in Management (i.e. 24 credit points) plus additional compulsory and optional subjects aggregating a further 48 credit points. No credit from previous study is permitted.

Course approval: The programme of study for each student is to be approved by the Head, Department of Management. Students who have substantially covered the content of any of the compulsory subjects, may be exempted 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.
DESCRIPTION OF SUBJECTS - MANAGEMENT 261

DIPLOMA IN MANAGEMENT AND
MASTER OF MANAGEMENT SUBJECT DESCRIPTIONS

MGMT901 CAPITAL INVESTMENT

6 credit points (2 hours 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.

No prescribed textbooks.

MGMT902 TOPICS IN ORGANISATION

6 credit points (2 hours per week)
Assessment: seminars, essay(s) and examination(s).
Pre-requisite: MGMT314 or MGMT911

Approaches to the study of organisation. Analysis of organisation with special reference to questions of structure and design, the relationship between organisation and environment, policy formation processes, and policy implementation.

No prescribed textbooks.

MGMT903 INVESTMENT MANAGEMENT

6 credit points (2 hours per week)
Assessment: seminars, essay(s) and examinations
Pre-requisite: ACCY221 or MGMT921


No prescribed textbooks.

MGMT904 CORPORATE FINANCIAL INFORMATION ANALYSIS

6 credit points (2 hours per week)
Assessment: seminars, essay(s) and examination(s)
Pre-requisite: ACCY221 or MGMT921

A survey of methods for the appraisal and prediction of corporate financial performance from such publicly available information as accounting numbers, industry and economic statistics, and stock market data. Equal emphasis is placed upon the development of theoretical constructs, and appraisal of the results of empirical research, especially Australian studies.

TEXTBOOKS

Foster, G. Finance Statement Analysis, Prentice-Hall.
MGMT911 ORGANISATIONAL BEHAVIOUR

6 credit points (2 hours 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.

TEXTBOOKS


MGMT912 MANAGEMENT CONTROL SYSTEMS

6 credit points (2 hours per week)
Assessment: seminars, case studies, essay(s) and examination(s)


MGMT921 MANAGERIAL FINANCE

6 credit points (2 hours 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.

TEXTBOOKS


MGMT922 MARKETING

6 credit points (2 hours per week)
Assessment: seminars, case studies, essay(s) and examination(s)

Marketing as a vital part of the corporate planning cycle; developing a company's marketing orientation; marketing planning; marketing opportunities; product strategies, including segmentation, product-mix and brand strategies and new product development; pricing and channel strategies; and promotional strategies with respect to advertising, public relations, personal selling and sales promotion.

No prescribed textbooks.

MGMT923 STATISTICAL ANALYSIS FOR MANAGERS

6 credit points (2 hours per week)
Assessment: seminars, assignments, essay(s) and examination(s)
Not to count with ECON963

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; queueing models and linear
programming. Applications will be microeconomic aspects of managerial decision making such as the empirical estimation of demand schedules and the analysis of production decisions.

No prescribed textbooks.

**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.)

**MGMT927 CONTEMPORARY BUSINESS FINANCE THEORY**

6 credit points

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

**MGMT931 STRATEGIC PLANNING AND POLICY**

6 credit points (2 hours per week)

*Assessment:* assignments, essay(s) and examination(s)

*Pre-requisite:* Compulsory first and second year subjects

The formulation of unified, comprehensive and integrated plans designed to ensure that the basic objectives of enterprises are achieved. Primary emphasis will be on the dynamics of the interaction of policies, the external environment, strategy and organisational design; and the integration of functional activities into a unified effort. The course will encompass both conceptual issues and case studies.

No prescribed textbooks.

**MGMT932 MANAGERIAL ECONOMICS**

6 credit points (2 hours per week)

*Assessment:* seminars, assignments, essay(s) and examination(s)

Not to count with ECON962

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.

No prescribed textbooks.

**MGMT951 HISTORY OF MANAGEMENT THOUGHT**

6 credit points (2 hours per week)

*Assessment:* seminars, case studies, essay(s) and examination(s)

An overview of the development of management thought with emphasis on the
different approaches which have been employed in attempting to solve the perpetual problems faced by managers through the ages.

No prescribed textbooks.

MGMT952 PRODUCTION AND OPERATIONS MANAGEMENT

6 credit points (2 hours per week)
Assessment: seminars, case studies, essay(s) and examination(s)

The design and operation of goods and service producing activities with particular reference to the development of short term decision models.

TEXTBOOKS

Adam, E.E. and Ebert, R.J., Production and Operations Management, Prentice-Hall.

MGMT953 PERSONNEL MANAGEMENT

6 credit points (2 hours 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.

No prescribed textbooks.

MGMT954 SPECIAL TOPIC IN MANAGEMENT

6 credit points (2 hours per week)
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).

No prescribed textbooks.

MGMT955 SPECIAL TOPIC IN MANAGEMENT

6 credit points (2 hours per week)
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).

No prescribed textbooks.

MGMT956 PRODUCT MANAGEMENT

6 credit points (2 hours 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.

TEXTBOOKS

To be advised.

MGMT957 BUSINESS HISTORY

6 credit points (2 hours per week)
Assessment: seminars, case studies, assignments and examination(s)

A multidisciplinary approach to the factors that have determined the most outstanding business successes and failures in history. Cases will be selected from the United States, Britain, Germany, Japan and Australia. Both internal and external factors, such as the finance/investment decision-making processes within the firm, and the financial and macroeconomic context in which the businesses found themselves, will be examined, as will be national differences in managerial styles, work habits, and the legal framework.

No prescribed textbooks.

MGMT958 INDUSTRY ANALYSIS AND INVESTMENT POLICY

6 credit points (2 hours per week)
Assessment: seminars, case studies, assignments and examination(s)

An examination of sectors of the economy from the perspective of modern investment theory. It is designed to complement such subjects as security analysis, portfolio management and corporate policy. Employing the tools of economics, it describes and evaluates selected industries with special reference to the finance, mining and steel industries.

Particular emphasis will be placed on the role of government intervention in each industry, such as the effect of regulations and tax incentives. Case studies will be used to illustrate the principles involved, with the emphasis being on Australian material.

No prescribed textbooks.

MGMT960 CASE STUDY

6 credit points
An analysis of a particular managerial problem encountered in practice.

No prescribed textbooks.

MGMT961 ORGANISATIONAL CHANGE AND DEVELOPMENT

6 credit points (2 hours per week)
Assessment: seminars, essays

A study of how organisations change, with emphasis on the processes and approach-
es employed to generate planned change. Problems of managing change will be discussed and extensive use will be made of case studies.

No prescribed textbooks.

**MGMT962 MACRO-ORGANISATIONAL BEHAVIOUR**

6 credit points (2 hours per week)
Assessment: seminars, essays

An examination of structures and processes in organisation, issues in organisational design, organisation environment relations and emerging perspective in macro-organisational behaviour.

No prescribed textbooks.
DIPLOMA IN MATHEMATICS

The graduate Diploma in 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 Diploma will normally be from a pass degree with an appropriate 3 year sequence in Mathematics, or, subject to the approval of the Academic Senate 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 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 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 the Academic Senate, the registration of a candidate shall be terminated if that candidate fails subjects to the total value of 18 or more credit points.

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 the Academic Senate for candidates with the qualification of Diploma in Mathematics 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 graduate subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Department of Mathematics) \textit{(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 24 credit points, or

(c) satisfactory completion of a substantial written project whose credit point value is 12 together with the satisfactory completion of graduate subjects chosen from the Schedule of Graduate Subjects for the Honours Master of Science Degree (Department of Mathematics) \textit{(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,

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) \textit{(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) \textit{(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 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.

Subjects

For further details, see the postgraduate coursework coordinator: Dr. K. Tognetti.

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 MATH 993, 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


MATH913 MECHANICS OF ENGINEERING MATERIALS

The mechanics of the processing and performance of modern engineering materials. Topics will include plasticity, viscoelasticity, non-Newtonian fluid mechanics and fracture mechanics.

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

DESCRIPTION OF SUBJECTS - MATHEMATICS 271

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 $Ax = \lambda Bx$.

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 AND 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 COMBINATORARY 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 optimization 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, Lagrange 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 INFERENCE

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

Topics will be selected from the areas of interest of staff members or visiting staff members of the department.
DESCRIPTION OF SUBJECTS - MATHEMATICS

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
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.

MATH991 PROJECT
12 credit points

MATH992 MINOR THESIS
24 credit points

MATH993 THESIS
48 credit points
MECHANICAL ENGINEERING

HONOURS MASTER OF ENGINEERING

Entry under Section 6(1) - Graduates with an Honours Degree at a standard of Class II, Division 2 or higher

Students entering the course under Section 6(1) 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 6(2) - Graduates with a Degree below a standard of Honours Class II, Division 2

Students entering the course under Section 6(2) 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 6(1) (above).

Description of Subjects

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 Departmental Chairman and the Graduate Studies Committee.

MECH901 ADVANCED HEAT TRANSFER I

CONDUCTION HEAT TRANSFER. Unidimensional heat flow; analysis of extended surfaces; two and three dimensional conduction; unsteady conduction in one or more dimensions; analytical, numerical and analogical methods of solution; transient systems; initial value and boundary value problems; nonhomogeneous bodies; anisotropic bodies; variable material properties.

RADIATION HEAT TRANSFER. Thermal radiation properties of materials, black bodies - characteristics of real solids, liquid and gases; radiation exchange between infinite surfaces and between finite surfaces; shape factor for various configurations; radiation shields; re-radiating surfaces and electrical analogies, radiation behaviours of gases and vapours.

MECH902 ADVANCED HEAT TRANSFER 2


MECH904 GAS DYNAMICS

DESCRIPTION OF SUBJECTS - MECHANICAL ENGINEERING 275

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 optimisation; 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 Functions; State space analysis; Stability analysis; Interaction and inverse Nyquist array; Optimal control.

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; chemic 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.

MECH910 WATER RESOURCE MANAGEMENT


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 I

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 II

Carbonization, by-products; fluidized bed combustion, hybrid generation plants, co-generation; 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


MECH932 ADVANCED THERMODYNAMICS OF GENERAL ENGINEERING SYSTEM

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.

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 Chairman of the Department in which the student wishes to enrol and subsequently specialise.
METALLURGY AND MATERIALS ENGINEERING

DIPLOMA IN METALLURGY

Entry to the diploma normally will be from a bachelor's degree in metallurgy or other appropriate discipline and the candidate will be required to undertake a program either of full-time study for two academic sessions or of part-time study for four academic sessions. The program comprises courses totalling 48 credit points made up as follows:

(i) METL992 Metallurgy Project 4 24 credit points
(ii) Three of the advanced topics in Metallurgy described below 24 credit points

Advanced Topics in Metallurgy for the Postgraduate Diploma

Each subject is presented in one session, has a value of 8 credit points and comprises a minimum of one lecture per week with associated tutorials, assignments and laboratory work. Subjects are assessed by written examination together with credit for assignments and laboratory and other work.

METL903 DEVELOPMENTS IN MATERIALS

Critical appraisal of recent and projected developments in metallurgical and other materials. Consideration of micro- and crystal-structures, physical and mechanical properties, applications, and the trends in processing of such materials.

METL904 SPECIAL TOPIC IN METALLURGY B

Detailed study of a specialist topic in metallurgy given by members of staff or visitors to the Department.

METL915 CORROSION OF MATERIALS

Corrosion and deterioration of metals, alloys and non-metallic materials. Mechanical, environmental and design effects; protection and prevention.

MECH934 MANUFACTURING PROPERTIES OF MATERIALS


METL962 MODELLING TECHNIQUES IN METALLURGY

Application of digital and analogue computing techniques in the development and evaluation of mathematical and other models of physical systems in metallurgy.

METL982 DEVELOPMENTS IN EXTRACTIVE METALLURGY


CHEM327 CHEMISTRY AND THE ENVIRONMENT

Refer Undergraduate Handbook - Description of Subjects - Chemistry

METL 992 METALLURGY PROJECT 4

24 Credit Points
HONOURS MASTER OF ENGINEERING

Entry under Section 6(1) - Graduates with an Honours degree at a standard of Honours Class II, Division 2 or higher.

A candidate who enters under Section 6(1) 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 Chairperson of the Department of Metallurgy and Materials Engineering.

Entry under Section 6(2) - Graduates with a degree at a standard below Honours Class II, Division 2.

A candidate who enters under Section 6(2) 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 in Materials 48 credit points
- MATL990 Major Thesis 48 credit points

MATL990 MAJOR THESIS

48 credit points

MATL999 ADVANCED TOPICS IN MATERIALS

A program, approved by the Chairperson 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.

HONOURS MASTER OF METALLURGY

Entry under Section 6(1) - Graduates with an Honours degree at a standard of Honours Class II, Division 2 or higher.

A candidate who enters under Section 6(1) of the Honours Masters Degree Regulations (i.e. who has qualified for the degree of Bachelor of Metallurgy with Honours at Class II, Division 2 or higher or equivalent) will be required to undertake the subject METL990 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 the submission of a thesis embodying the results of that research. The subject is valued at 48 credit points. Also, entry may be approved by the Academic Senate for candidates with the qualifications of Diploma in Metallurgy and who have successfully completed any additional work specified by the Chairman of the Department of Metallurgy.

Entry under Section 6(2) - Graduates with a degree at a standard below Honours Class II, Division 2.

A candidate who enters under Section 6(2) of the Masters Degree requirements (i.e. who has qualified for the degree of Bachelor of Metallurgy at a standard below Honours Class II, Division 2) will be required to undertake a program of work normally for either four academic sessions full-time study or eight academic
DESCRIPTION OF SUBJECTS - METALL. & MATS. ENGINEERING 281

sessions part-time study. The course comprises subjects totalling 96 credit points as follows:

(i) METL993 Metallurgy Project 3, and
Four of the advanced topics in Metallurgy described below or
METL999 Advanced Topics in Metallurgy
(ii) METL990 Major Thesis (as for Honours Entry)

16 credit points
32 credit points
48 credit points
48 credit points

Advanced Topics in Metallurgy for the Masters Degree

Each subject is presented in one session, has a value of 8 credit points and comprises a minimum of one lecture per week and associated tutorials, laboratory and assignments. Subjects are assessed by written examinations together with credit for assignments and laboratory and other work.

METL905 SPECIAL TOPIC IN METALLURGY C
Detailed study of a specialist topic in metallurgy given by members of staff or visitors to the Department.

METL921 ADVANCED DIFFRACTION TECHNIQUES
Advanced geometrical, kinematical and dynamical theories of electron and X-ray diffraction; reciprocal lattice, stereographic projection.

METL931 MECHANICAL BEHAVIOUR OF MATERIALS
Generalised Hooke’s law, yield surface for anisotropic materials, development of preferred orientations, elastic properties of dislocations, dislocation interactions and reactions, strain hardening.

METL932 THERMOMECHANICAL PROCESSES
Hot deformation processes, creep, superplasticity, high temperature fracture, dynamic recovery and recrystallisation.

METL933 FRACTURE OF MATERIALS
Plastic constraint, fracture mechanics for conditions of plane stress and strain and of general yielding, C.O.D. testing, fatigue, stress corrosion, mechanisms of crack nucleation and propagation.

METL935 METAL FORMABILITY
Principles of sheet metal forming: effects of forming conditions; effects of material properties. Mechanical testing processes for ductile sheet metals.

METL951 STRUCTURE AND PROPERTIES OF ALLOYS
Strengthening of ferrous and non-ferrous alloys; relationships between strength, toughness and microstructure; thermomechanical treatments, ausforming, isoforming, austempering, martempering, maraging etc; high performance alloys.
METL952 ADVANCED METALLOGRAPHIC METHODS
Advanced theory and practice of light-optical and electron-optical techniques for the analysis of the fine structure of metals and other materials.

METL961 PROCESS MODELLING 2
Theory and application of computing techniques for process modelling and simulation.

METL971 SOLIDIFICATION 3
Nucleation, growth structures in pure metals, single and polyphase alloys, cast structure development and control, grain refinement and modification, segregation, thermodynamics and fluid flow in solidification, processing and properties.

METL981 ADVANCED EXTRACTIVE METALLURGY
Mixing and segregation; effect on yield, design for heterogeneous reacting systems, fluid-solid and fluid-fluid systems, rate expressions for various kinetic regimes, design strategy for single and multiple reactors, applications.

METL990 MAJOR THESIS
48 credit points

METL993 METALLURGY PROJECT 3
16 credit points

METL999 ADVANCED TOPICS IN METALLURGY
A program, approved by the Chairman 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 techniques.
MASTER OF STUDIES IN 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 Studies in Multicultural Studies is a four session part-time course, comprising 48 credit points, in the following subjects.

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 emphases 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 structure. 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 Centre and Head of the department or school concerned.
DIPLOMA IN PHILOSOPHY

The purpose of the graduate Diploma in Philosophy 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 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 '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 Chairpersons of the Departments of Philosophy and Education, or of Philosophy and History and Philosophy of Science, up to 24 credit points at 200-level and/or 300-level may be taken from subjects listed in the Arts Schedule under 'Education' and/or 'History and Philosophy of Science'. 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 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 Departmental Head.

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 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.

HONOURS MASTER OF ARTS

1. 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.

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 Departmental Head to be appropriate as a foundation for postgraduate studies, given the background and intended pursuits of the individual student.
DESCRIPTION OF SUBJECTS - PHILOSOPHY

TEXTBOOKS

As laid down in the requirements for the component courses.

PHIL999 MAJOR THESIS

Double session subject; 48 credit points

2. HONOURS MASTER OF ARTS BY COURSE WORK

The purpose of the Honours Master of Arts by Course Work 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 course work 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.

Subjects

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 philosophical, inductive and/or formal logic.

PHIL943 ADVANCED POLITICAL PHILOSOPHY

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.

PHIL923 MINOR THESIS

Double session; 24 credit points.
PHYSICS

HONOURS MASTER OF SCIENCE

Subjects

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 PHYS309 Advanced Experimental Physics. The number and type shall be determined by two members of the academic staff of the Department of Physics.

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 Departmental Chairperson 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 PHYS309 Advanced Experimental Physics. The number and type shall be determined by two members of the academic staff of the Department of Physics.

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 Departmental Chairperson in consultation with the Departmental Assessment Committee.

PHYS999 MAJOR THESIS

Double session subject, 48 credit points
DIPLOMA IN GENERAL PSYCHOLOGY

The Diploma in General Psychology is available to Bachelor degree graduates (or their equivalent) with substantial and coherent study at the 300-level in disciplines other than Psychology. This Diploma enables these students to add knowledge of individual human problems and their solutions to their knowledge and skills in other fields. The Diploma consists of a coherent 48 credit point program of study selected by students and approved by the Head of the Department of Psychology.

It normally occupies two sessions of full-time study or four sessions of part-time study. Admission to the Diploma 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 diplomas.

DIPLOMA IN GENERAL PSYCHOLOGY (DIP. GEN. PSYCH.)*

This Diploma requires the successful completion of 48 credit points in:

(i) the subject PSYC951 The Study of Experience (8 credit points)

(ii) as many as 24 credit points in 900-level psychology subjects (not to include PSYC911, PSYC912, PSYC913, PSYC921, PSYC922, PSYC923, PSYC924, PSYC925, PSYC931, PSYC932, PSYC933, PSYC934 or PSYC935)

and

(iii) as many as 40 credit points in psychology at the 200-level and 300-levels.

MASTER OF STUDIES IN PSYCHOLOGY

The Master of Studies in 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 Master of Studies enables pass students to update or extend their psychological studies into a 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 Master of Studies.

The Master of Studies requires the successful completion of 48 credit points in:

(i) the subject PSYC951 The Study of Experience (8 credit points)

(ii) the subject PSYC963 Research Project (8 credit points)

(iii) 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 The Psychology of Organizational Communication
PSYC957 Behavioural Medicine

* There will be no new enrolments in this program.
Students presently enrolled in the Diploma in Psychology should contact Janet Powell in the Department.
HONOURS MASTER OF ARTS

With the increasing application of psychology to a wide variety of human problems comes the need for psychologists who are knowledgeable about psychology in general and skilled in its application in the community. Much of that knowledge can be acquired in an undergraduate degree, and it is after that educational experience that application skills can best be gained. This Honours Master of Arts program in Applied Psychology provides this opportunity. It is structured so as to give students a general professional education dealing with basic issues and general skills in company with others whose special areas of application differ. Psychologists emerging from the program will be able to work in a variety of fields, showing the versatility which will be required by the changing community needs and different job roles psychologists will experience.

The educational objectives of the program are as follows. Graduates of this Honours Master of Arts program in Applied Psychology will develop a sound knowledge of human problems and a variety of approaches to them. They will become able to facilitate the functioning of others and to intervene effectively. Also they will develop as people, with increasing self-awareness and ability to relate to others. They will come to possess a range of methodologies for evaluation of their work and that of others in their research and evaluation skills. They will have a variety of practicum experiences.

The degree of Honours Master of Arts (MA(Hons)) by course work in the field of 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 that 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:

   (i) 24 credit points in subjects: PSYC911 Principles of Applied Psychology; PSYC912 Interpersonal Skills for Applied Psychologists; and PSYC913 Assessment and Appraisal in Applied Psychology;

   (ii) 16 credit points in two areas of specialization, that is two of PSYC921 Counselling Psychology; PSYC922 Psychology in the Schools; PSYC923 Clinical Psychology; PSYC924 Organizational Psychology; PSYC925 Child Clinical Psychology; or any PSYC92X subject; and

   (iii) 8 credit points in a Supervised Practicum in keeping with choices made under (ii) above, that is, one of PSYC931 Practicum: Counselling Specialization; PSYC932 Practicum: School Specialization; PSYC933 Practicum: Clinical Specialization; PSYC934 Practicum:
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 Applied Psychology; PSYC912 Interpersonal Skills for Applied Psychologists; and PSYC913 Assessment and Appraisal in Applied Psychology;

(ii) 16 credit points in two areas of specialization, that is, two of PSYC921 Counselling Psychology; PSYC922 Psychology in the Schools; PSYC923 Clinical Psychology; PSYC924 Organizational Psychology; PSYC925 Child Clinical Psychology or any PSYC93X subject.

(iii) at least 16 credit points in Supervised Practicums in keeping with choices made under (ii) above, that is, one of PSYC931 Practicum: Counselling Specialization; PSYC932 Practicum: School Specialization; PSYC933 Practicum: Clinical Specialization; PSYC934 Organizational Specialization; PSYC935 Practicum: Child Clinical Specialization 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.

Details of Subjects

HONOURS MASTER OF ARTS

6 credit points
PSYC901 PSYCHOLOGY REPORT
Refer to Department for details.

6 credit points
PSYC902 PSYCHOLOGY REPORT A
Refer to Department for details.

6 credit points
PSYC903 PSYCHOLOGY REPORT B
Refer to Department for details.

6 credit points
PSYC904 PSYCHOLOGY REPORT C
Refer to Department for details.
DESCRIPTION OF SUBJECTS - PSYCHOLOGY

PSYC911 PRINCIPLES OF APPLIED PSYCHOLOGY

Double session; 52 hours lectures and seminars; 8 credit points
Assessment: Class participation and assignments, including evaluation report.

Strand 1
A comprehensive study of different approaches to applied psychology including the basic premises and philosophical roots of different orientations (for example, behavioural, Gestalt, psychoanalytic, rational-emotive, symbolic interactionist); relations between applied psychology and other disciplines; multi-disciplinary approaches; codes of ethics for psychologists; the legal responsibilities of applied psychologists working with adults and children. No text will be set but students will be referred to different source materials, especially journals.

Strand 2
An examination of theories of and approaches to evaluation and evaluation research; and a field exercise involving a formal evaluation of psychological services.

PSYC912 INTERPERSONAL SKILLS FOR APPLIED PSYCHOLOGISTS

Double session; 52 hours of supervised practical work; 8 credit points
Assessment: Continuous Assessment.

Opportunities will be provided for the development of personal and interpersonal skills including self-awareness, deployment of self as a tool, interpersonal work in dyads and triads as well as in groups as group members and leaders. Such work will include the use of fantasy, dreamwork, interpersonal encounters, psychodrama and other kinds of group work. While much of this work will be supervised by staff, emphasis will also be placed on the development of peer supervision skills.

PSYC913 ASSESSMENT AND APPRAISAL IN APPLIED PSYCHOLOGY

Double session; 52 hours of lectures, seminars and practical work; 8 credit points.
Assessment: Administration and evaluation of assessment techniques; test construction and written examination.

Some knowledge of the theory of testing and measurement is assumed in this subject. Students will study assessment and appraisal techniques used with both adults and children and common to many applied psychologists, but they will also study others which relate to their area of professional specialization. A textbook will be recommended.

ALL THE ABOVE SUBJECTS ARE CORE SUBJECTS REQUIRED OF EVERY STUDENT IN THE PROGRAM. NOW FOLLOW A NUMBER OF SPECIALIST SUBJECTS WHICH DEAL WITH THE SPECIAL PROBLEMS OF SPECIFIC CLIENTS IN SPECIFIC CONTEXTS AND THE METHODS OF INTERVENTION EMPLOYED WITH THEM.

PSYC921 COUNSELLING PSYCHOLOGY

First 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 counselling client and his or her context, a study of contemporary approaches to counselling, the development or metatheory in counselling psychology, the development and teaching of counselling skills. Readings to be recommended.
PSYC922 PSYCHOLOGY IN THE SCHOOLS

Second 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 cognitive, emotional and social problems of the child in the school; deviancy, sex roles and cultural differences; intervention techniques such as remedial work, behaviour modification and play therapy; schools as social systems, the role of the school psychologist and psychological consultation in the school. Readings will be recommended, especially in such journals as *Child Development, Adolescence, Journal of Learning Disabilities, Elementary School Guidance and Counselling Psychology in the School*.

PSYC923 CLINICAL PSYCHOLOGY

Second 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 human psychopathology, neuroanatomical and neurophysiological pathology, some appraisal techniques specific to clinical psychology, and therapeutic psychology which provides a study of some systems of psychotherapy applied with adults and children and some methods of case management and intervention. A reading program will be recommended.

PSYC924 ORGANIZATIONAL PSYCHOLOGY

Second 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

First session; 8 credit points (4 class hours per week for 1 session)
Chairperson: Linda L. Viney
Assessment: Practical work and assignments and/or written examination.

This subject will deal with child psychopathology and its special forms of assessment, including observation, interviewing, testing and the use of projective techniques (those not dealt with in the core course PSYC913 Assessment and Appraisal). Related interventions such as behaviour modification, counselling and psychotherapy, play therapy, art work, psychodrama and other forms of group work, family therapy and environmental manipulations will be explored. Prevention of psychological problems in childhood will also be in focus. Mental retardation and other results of psychoneurological difficulties will receive attention, as well as the management of children with special problems such as physical handicaps, delinquency, depression and aggressive behaviour. Ethical and professional issues considered will be those involved in work with minors.

No set text.

PSYC931 PRACTICUM: COUNSELLING SPECIALIZATION

Double session; 52 hours of seminars; 8 credit points.
Assessment: Seminar (case conference) presentations, field notebooks and assessment by university and field supervisors.

This subject, like the other practicum subjects, is intended to provide supervised
experience in a variety of settings in which psychology is applied. Each specialist course, while requiring concentration in the area of specialization, will also give students the opportunity to become involved in one area of professional practice.

**PSYC932 PRACTICUM: SCHOOL SPECIALIZATION**

*Double session; 52 hours of seminars; 8 credit points.*

*Assessment:* Seminar (case conference) presentations, field notebooks and assessment by university and field supervisors.

This subject, while differing from PSYC931 in content and placements, has similar goals.

**PSYC933 PRACTICUM: CLINICAL SPECIALIZATION**

Details as for PSYC932.

**PSYC934 PRACTICUM: ORGANIZATIONAL SPECIALIZATION**

Details as for PSYC932.

**PSYC935 PRACTICUM: CHILD CLINICAL SPECIALIZATION**

*Double session; 8 credit points (field work plus 52 hours of seminars)*

*Chairperson:* Linda L. Viney and John deWet

*Assessment:* Reports by field and university Supervisors; field notebooks; seminar (case conference) presentations.

This subject, while differing from other practicum subjects in content and placement(s), has similar goals. Its focus will be on the diagnosis, treatment, management and prevention of children's psychological problems.

**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.
DESCRIPTION OF SUBJECTS - PSYCHOLOGY

Details of Subjects

DIPLOMA IN GENERAL PSYCHOLOGY
MASTER OF STUDIES

PSYC951 THE STUDY OF EXPERIENCE

First session; 8 credit points (2 lectures/seminars)
Chairperson for Subject: Associate Professor Linda L. Viney
Assessment: Within session assignments

The Department of Psychology has taken, as one of its main points of focus, the experience of human beings. Experience-based psychology deals with the subjective perspective in order to amplify the objective perspective. It conceives of people as active perceivers and interpreters. It is concerned with meaning, and therefore with qualitative rather than quantitative approaches.

The historical roots of the assumptions of experience-based psychology will be explored with reference to Plato, Descartes, Locke, Hume, Kant and Schopenhauer. The more recent contributions of Dilthey, Brentano and James will also be examined, as will the role of this psychology as a counter balance to psychoanalysis, on the one hand, and behaviourism on the other. Contemporary models of experience-based psychology, such as those of Adler, Kelly, Schutz, Laing and Giorgi will be considered, together with their implications for psychological research, for applied psychology and for the teaching of psychology. Staff of the Department will also focus on these areas, depending on the interests of individual students.

PRELIMINARY READINGS


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. Psych. 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

First session; 8 credit points (two contact hours; 1 lecture/seminar/discussion)
Chairperson for Subject: To be advised.
Assessment: Essay

Health has been defined by Capra (1982) as ... "an experience of well-being resulting from a dynamic balance that involves the physical and psychological aspects of the organism, as well as its interactions with the natural and social environment." Topics based on this notion will include the systems view of life; self-organizing systems; human transitions and cycles; health and illth contrasted;
DESCRIPTION OF SUBJECTS - PSYCHOLOGY

health care; health risks (the external and internal environments); and health research.

Although each class meeting will include a relatively short lecture or other formal presentation, it will be given from within an "educational community". Class meetings will be information exchanges and all students will be required to participate by presenting and discussing materials from their own reading.

TEXTBOOKS


PSYC954 PSYCHOLOGY AND WOMEN

Second session; 8 credit points (3 contact hours; 1 lecture, 2 hour seminar)
Chairperson for Subject: Dr. B. Walker
Assessment: Seminars and project

This course will explore the ways in which psychology has viewed women. Traditionally psychology has seen women in comparison with the male norm. Classical psychoanalytic theory will be considered in relation to this question. Such an approach has been criticised and alternative theories advocated.

Accounts of the development of gender identity, sex roles and sex differences will be compared. The relationships that females engage in throughout their lives, with their parents, siblings, peers, lovers, children and workmates will be considered. The effects on the individual woman of social systems, including the delivery of health care services and psychotherapy, will be explored.

TEXTBOOKS


PSYC955 PSYCHOLOGY OF INFORMATION PROCESSING

Second session; 8 credit points (2 hours lectures, 2 hours laboratories)
Chairperson for Subject: Dr. S.L. Chow
Assessment: Laboratory work and assignment and/or examination.

The objective of this course is to investigate what can be learned about human capabilities and limitations when the Homosapiens 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.

PSYC956 THE PSYCHOLOGY OF ORGANIZATIONAL COMMUNICATION

Second session; 8 credit points (2 hours per week; 1 hour lecture, 1 hour seminar)
Chairperson for Subject: Dr. N.L. Adams
Assessment: Seminar papers and/or major essay/report based on empirical or theoretical work.
This course is concerned with the process, the meaning and the effects of communication in organizations. The formal and informal systems which develop in organizations are analysed in terms of their organizational and their personal or human functions. An applied approach is taken to the identification of communication problems, and more generally to the problems which are engendered or aggravated by poor organizational communication. The relationships between power, possession or control of information and communication are explored.

The interactions between communication and other major problem areas in organizations receive detailed attention, with particular reference to the following: Job motivation and satisfaction; Leadership; Management styles; Organisational decision making; Democratisation, participation and consultative practices; Industrial relations, confrontation and conflict resolution; Organizational development; Organizational and individual goal setting and goal realization.

TEXTBOOK

In addition to the more general organizational and occupational psychology journals the following journals would be utilised for source material:

Australian Communication Review
Communication Education
Communication Year Book
Human Communication Research
Journal of Business Communication

PSYC957 BEHAVIOURAL MEDICINE

Second session; 8 credit points (2 hours lecture/seminar)
Chairperson for Subject: Dr. S. Ginsberg

Behavioural medicine has been defined as "the interdisciplinary field concerned with the development and integration of behavioural and biomedical science knowledge and techniques relevant to health and illness and the application of this knowledge and these techniques to prevention, diagnosis, treatment, and rehabilitation". This subject examines the contribution of conditioning and learning, behaviour modification, psychophysiology, and biofeedback to this interdisciplinary endeavour.

TEXTBOOK

Journal articles will be assigned rather than a set text.

PSYC958 HUMAN COMMUNICATION

Second session; 8 credit points (2 hrs per week)
Chairperson for Subject: Dr. D.L. Mixon
Assessment: Within session assignments and laboratory work

The course will examine nonverbal communication in the context of expressive/perceptual systems. Particular attention will be given to the vocal/auditory system and the bodily/visual system. Laboratory sessions will be devoted to ways of increasing vocal and bodily expressive skills and auditory and visual perceptual skills as well as the measurement of each.

TEXTBOOK

No set text.
DESCRIPTION OF SUBJECTS - PSYCHOLOGY

PSYC959 ADVANCED COURSE IN
DEVELOPMENTAL PSYCHOLOGY

Second session; 8 credit points (2 hrs lecture/seminar)
Chairperson for Subject: Dr. R.M. Henry
Assessment: Within session research project

The purpose of the course is to provide the experience of applying the theory and research techniques of child and lifespan developmental 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

Second 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. P. Pattison
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

Second 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.

**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,

and

4. report their findings in the form of an article suitable for a refereed journal of their choice.

**MASTERS BY RESEARCH**

**DOCTORATE OF PHILOSOPHY**

**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.

**DOCTOR OF CLINICAL PSYCHOLOGY**

The Doctorate in Clinical Psychology integrates research with practice and is a three year full-time or six year part-time degree. To qualify for entry candidates must have an Honours bachelor degree of at least II (i) standard.

The program for the Doctorate of Clinical Psychology requires the successful completion of:

(i) a supervised research program on a topic which is in the field of Clinical Psychology. The research program will be written up as a thesis and its evaluation will contribute fifty percent toward the final assessment.
(ii) at least 72 credit points from the Schedule of Graduate subjects in Psychology as follows:

A. at least 40 credit points made up of the following subjects: PSYC911 Principles of Applied Psychology, PSYC912 Interpersonal Skills for Applied Psychologists, PSYC913 Assessment and Appraisal in Applied Psychology, PSYC923 Clinical Psychology, PSYC925 Child Clinical Psychology.

B. at least 8 credit points in supervised practical clinical experience in one of: PSYC933 Practicum: Clinical Specialization or PSYC935 Practicum: Child Clinical Psychology Specialization.

C. at least 8 credit points in PSYC926 Advanced Clinical Psychology coursework.

D. at least 8 credit points in supervised practical clinical experience in PSYC936 Practicum: Advanced Clinical Psychology Specialization.

E. at least 8 credit points in PSYC927 Clinical Research Methods coursework.

These courses are described elsewhere in this calendar.

Award of the degree of Doctor of Clinical Psychology is governed by the university regulations for the award of Doctor of Special Areas* as described elsewhere.

PSYC926 ADVANCED CLINICAL PSYCHOLOGY

Double session; 8 credit points (52 hours of tutorials)
Chairpersons for Subject: John de Wet and Rachael Henry
Assessment: Assignments to be determined

Candidates will be required to pursue a supervised course of advanced study in an area of specialization of their choice. Areas of specialization may include one of the following topics:

- Psychodynamic child clinical psychology
- Family dynamics and family therapy
- Brief psychotherapy
- Aging and Psychological problems
- Developmental disorders
- Drug and alcohol rehabilitation
- Physical disability and psychological problems
- Neuropsychology
- Forensic psychology
- or another topic approved by the Departmental Chairperson

PSYC936 PRACTICUM: ADVANCED CLINICAL PSYCHOLOGY SPECIALIZATION

Double session; 8 credit points (52 hours of seminars)
Chairpersons for Subject: John de Wet and Rachael Henry
Assessment: Case conference presentations, field notebooks and assessment by university and field supervisors

Candidates will be required to undertake supervised practical work related to their chosen advanced coursework of PSYC926.

*These regulations are still proceeding through relevant university committees.
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 Doctorate in 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
DIPLOMA IN SCIENCE AND TECHNOLOGY STUDIES

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 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 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 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 Diploma is on the recommendation of the Head of the Department of Science and Technology Studies.

HONOURS MASTER OF ARTS

The Department of Science and Technology Studies offers two separate Honours Masters programs by coursework. The first is designed primarily for graduates who have a grounding in Science and Technology Studies and who wish to pursue their studies at a higher level. The second is designed primarily for graduates with little or no STS background, and centres on the new area of the study of technology in its socio-economic and political context.

PROGRAM 1

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 the following subjects:

STS910 Topics in Science and Technology Studies A
STS911 Topics in Science and Technology Studies B
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.

**STS910 TOPICS IN SCIENCE AND TECHNOLOGY STUDIES A**

*Double session subject; 24 credit points (contact hrs per week: 4 hrs)*

*Assessment: Essays and seminar papers*

Students will take a selection of topics appropriate to their field of special interest, subject to the approval of the Head of Department and to their availability in any year.

**STS911 TOPICS IN SCIENCE AND TECHNOLOGY STUDIES B**

*Double session subject; 24 credit points (contact hrs per week: 4 hrs)*

*Assessment: Essays and seminar papers*

Students will take a selection of topics appropriate to their field of special interest, subject to the approval of the Head of Department. Topics shall not include those studied in STS910.

**STS901 THEORIES AND METHODS OF SCIENCE AND TECHNOLOGY STUDIES**

*12 credit points (contact hours per week: 3 hrs seminars)*

*Assessment: Essays and Seminar papers.*

Historiography of the history of science; philosophy of history; structure and explanation of science; epistemological and social basis of scientific knowledge; research method.

**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 Department. Topics shall not include those studied in STS910 or STS911.
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 Department under the supervision of a staff member.

STS999 MAJOR THESIS

Double session; 48 credit points

PROGRAM 2

HONOURS MASTER OF ARTS IN THE AREA OF 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:

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<th>Credit Points</th>
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<tbody>
<tr>
<td>STS921 A Historical Introduction to Technology</td>
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<td>STS922 The Politics of Technological Change</td>
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<td>STS923 Technology and the State</td>
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and either

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<tr>
<td>STS924 Minor Thesis</td>
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or

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<tr>
<td>STS951 Research Report</td>
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and to select from the following subjects to make up the total of 96 credit points:

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<tr>
<td>STS931 Risk Assessment</td>
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<td>STS932 The Organisation of Technological Change</td>
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DESCRIPTION OF SUBJECTS - SCIENCE & TECHNOLOGY STUDIES 305

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<th>Code</th>
<th>Title</th>
<th>Credit Points</th>
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<tr>
<td>STS933</td>
<td>Energy and Technological Development</td>
<td>12</td>
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<td>STS934</td>
<td>Genetics and Technological Innovation</td>
<td>12</td>
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<td>STS935</td>
<td>The Impact of Computers and Communications</td>
<td>12</td>
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<td>STS936</td>
<td>The Technology of Medicine and Health</td>
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<td>STS937</td>
<td>The Management of Technology</td>
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<tr>
<td>STS938</td>
<td>Science, Technics and Technology</td>
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<tr>
<td>STS939</td>
<td>Technology and War</td>
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<tr>
<td>STS940</td>
<td>Theories of Science, Technology and Society</td>
<td>12</td>
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<tr>
<td>STS941</td>
<td>The Organisation of Modern Science</td>
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<td>STS942</td>
<td>Women and Technology</td>
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Category B students are required to take 48 credit points from the following subjects:

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<th>Code</th>
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<tbody>
<tr>
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<td>A Historical Introduction to Technology</td>
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<tr>
<td>STS922</td>
<td>The Politics of Technological Change</td>
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<tr>
<td>STS923</td>
<td>Technology and the State</td>
<td>12</td>
</tr>
<tr>
<td>STS931</td>
<td>Risk Assessment, Health and Safety</td>
<td>12</td>
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<tr>
<td>STS932</td>
<td>The Organisation of Technological Change</td>
<td>12</td>
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<tr>
<td>STS933</td>
<td>Energy and Technological Development</td>
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<td>STS936</td>
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<td>STS937</td>
<td>The Management of Technology</td>
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<td>STS938</td>
<td>Science, Technics and Technology</td>
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24 credit points must be taken from:

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<tr>
<td>STS923</td>
<td>Technology and the State</td>
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</tbody>
</table>

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.

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.

Subjects
306 DESCRIPTION OF SUBJECTS - SCIENCE & TECHNOLOGY STUDIES

STS921 A HISTORICAL INTRODUCTION TO TECHNOLOGY

Single Session subject; 12 credit points (contact hours per week: 3 hours)

An investigation of the development of technology, the various forms it has taken, its response to and effect on social and economic conditions from the eighteenth century onwards.

STS922 THE POLITICS OF TECHNOLOGICAL CHANGE

Single Session subject; 12 credit points (2 lectures, 1 tutorial, 1 seminar per week)

An examination of the social and physical impact of contemporary technological development, and the social constraints which guide and obstruct alternative paths of socio-technical development.

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 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)

The organisation and management of R & D, patterns of industrial innovation, State-subsidised technological development, assessing the costs and benefits of technology.

STS933 ENERGY AND TECHNICAL DEVELOPMENT

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.
DESCRIPTION OF SUBJECTS - SCIENCE & TECHNOLOGY STUDIES

STS934 GENETICS AND TECHNOLOGICAL INNOVATION

*Single Session subject; 12 credit points (contact hours per week: 3 hours)*

Topics include the history of molecular genetics and possible further developments; the study of techniques utilized by researchers and their exploitation in medicine and industry; discussion of the problems of assessing the effects of mutagenic agents.

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; 6 credit points (3 contact hours per week)*

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.*


(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 points (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 Department, under the supervision of a staff member.
DIPLOMA IN SOCIOLOGY

The purpose of the graduate Diploma in Sociology 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 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 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 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.

HONOURS MASTER OF ARTS

SOC999 Major Thesis 48 credit points

See Note at the beginning of the section Description of Subjects.

MASTER OF STUDIES IN SOCIOLOGY

The purpose of the Master of Studies in Sociology 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:

(i) 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.

(ii) 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.

(iii) Subjects will be offered depending on resources and demand; not all subjects will be offered in any one year or session.

(iv) Students enrolled in courses, SOC921 through to SOC959 will need to gain a CREDIT grade to pass the course.
MASTER OF STUDIES IN SOCIAL POLICY

The purpose of the Master of Studies in Social Policy is to allow graduates to pursue policy-oriented studies within a framework instructed by debates in sociological theory. The M.Stud.(Soc.Pol.) is substantially similar to the M.Stud. in Sociology except that there is a specific focus on the policy orientation of sociological theory. Students are required to choose courses worth a total of 48 credit points from the Schedule of Graduate Studies with the following qualifications:

(i) 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.

(ii) 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.

(iii) Subjects will be offered depending on resources and demand; not all subjects will be offered in any one year or session.

(iv) Students enrolled in courses, SOC910 through to SOC958 will need to gain a CREDIT grade to pass the course.

(v) Students are required to include SOC910 and SOC940 in their programs unless substantially similar courses have been completed at an undergraduate level.

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 SOCIOLOGICAL THEORY

Second session; 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.
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 hr lecture, 1 x 2 hr seminar per week)
Assessment: 1 seminar paper; 1 essay/research project of up to 5,000 words.

The course utilises sociological understandings as a basis for an exploration of individual and social dimensions of health and illness. Starting from an analysis of medicine as a social process, the course examines cross-cultural data as a basis for an intensive examination of health and illness in industrial societies. Issues raised include the development and generation of illness and the responses to illness of various "others" (including friends, family, colleagues, bosses and various agencies of the State), class, ethnicity and gender as aspects of illness, professionalisation of medical and paramedical practice, the political sociology of the medical establishment, the sociology of disability, different types of medical knowledge and healing, and their associated social conflicts.

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

Second session; 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

Second session; 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

Second session; 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 analysis will be tested against social phenomena which certain sociologists interpret within the dynamics of "race" and "ethnicity".

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

First session; 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 SCIENCE TECHNOLOGY AND SOCIETY

First session; 8 credit points (3 contact hrs; 1 lecture/1 seminar per week)
Assessment: 1 essay, 2 seminar papers

This subject will locate present thinking in the sociology of science into a context of changing ideas about the nature and role of science and technology. It will explore the institutionalisation of science - treated both as knowledge system and social process; its forms of relationship to technology, and the social/economic/political context in which this relationship is set. It will explore the effects of science on the relationships between individual and society, consciousness and culture. Finally, the subject will explore the substance of contemporary social "movements" that are refashioning the relationship between science and society (e.g. expressions of anti-science, "radical" science and technology, and "marginal" contributions to scientific thought).

SOC950 ADVANCED STUDIES IN THE INDIVIDUAL IN SOCIETY

Second session; 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**

*First session; 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**

*Second session; 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**

*First session; 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**

*First session; 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**

*First session; 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

Second session; 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 WAR AND PEACE

Second session; 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/nature debate presented by sociobiology. The cultural and ideological reproduction of gender is explored through the insights offered by psychoanalytic accounts of masculinity, feminity and sexual
DESCRIPTION OF SUBJECTS - SOCIOLOGY

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 re-definition 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.

SOC989 MINOR THESIS

Two sessions; 24 credit points
Assessment: 1 research thesis.

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 draw 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.
POSTGRADUATE CALENDAR 1987

AMENDMENT TO GRADUATE DEGREE & DIPLOMA REGULATIONS

P.86  (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.

P.92  Doctoral Degree Regulations

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: