\$ 378.94405 NEW 93



The University of New South Wales

Medicine

1990 Faculty Handbook





Granted by the College of Heralds, London 3 March 1952

Heraldic Description of Arms

Argent on a Cross Gules a Lion passant guardant between four Mullets of eight points Or a Chief Sable charged with an open Book proper thereon the word SCIENTIA in letters also Sable.

The lion and the four stars of the Southern Cross on the Cross of St George have reference to the State of New South Wales which brought the University into being; the open book with SCIENTIA across its page reminds us of its original purpose. Beneath the shield is the motto 'Manu et Mente' ('with Hand and Mind'), which is the motto of the Sydney Technical College, from which the University has developed. The motto is not an integral part of the Grant of Arms and could be changed at will; but it was the opinion of the University Council that the relationship with the parent institution should in some way be recorded.





The University of New South Wales

Medicine

1990 Faculty Handbook

ISSN 0312-6137

The address of the University of New South Wales is:

PO Box 1, Kensington New South Wales, Australia 2033

Telephone: (02) 697 2222

Telegraph: UNITECH, SYDNEY

Telex: AA26054

Subjects, courses and any arrangements for courses including staff allocated, as stated in the Calendar or any Handbook or any other publication, announcement or advice of the University, are an expression of intent only and are not to be taken as a firm offer or undertaking. The University reserves the right to discontinue or vary such subjects, courses, arrangements or staff allocations at any time without notice.

Information in this Handbook has been brought up to date as at 9 October 1989, but may be amended without notice by the University Council

Contents

Calendar of Dates	1 3
Message to New Students from the Dean	13
Faculty of Medicine Calendar of Dates	15
Faculty Information Some People Who Can Help You The Faculty Committee Structure Costs in Addition to Fees Teaching Campuses The Biomedical Library The University of New South Wales Medical Society	17 17 17 18 18 18 21 22
Undergraduate Study: Selection into the Faculty of Medicine General Education Requirement	23 23 24
Undergraduate Study: 3800 Medicine Course (MB BS) Objectives of the Medicine Course Supplementary Assessment Course Details Year 1 Assessment 26, Rules of Progression 26, Photographs, Identification Badges, Immunisation 26, Allocation to Hospitals in Year 2 26,	25 25 25 26 26
Year 3 Ye	27 29
Assessment 29, Rules of Progression 29, Year 3 Subject Descriptions 29 Year 4 Rules of Progression 30, Year 4 Subject Description 31	30
Year 5 Assessment and Rules of Progression 31, Year 5 Subject Descriptions 32, The Six Year Curriculum – Outline of Years 4 to 6 Intern Placement and Registration Reaking Students for the Award of Hopours	31 35 35
and Intern Placement	35
Undergraduate Study: 3820 Combined Science and Medicine Course (BSc MB BS)	39
Undergraduate Study: 3830 Bachelor of Medical Science (BMedSc) Rules for the Award of the Bachelor of Medical Science Degree Rules for the Award of the Bachelor of Science (Medicine) Degree with Honours	43 43 44

Medicine

Undergraduate Study: Subject Descriptions Identification of Subjects by Numbers Faculty of Medicine Summary of Subject Descriptions Physics Chemistry Mathematics Biological Science Biochemistry Anatomy Medicine Pathology Physiology and Pharmacology Chemistry	45 46 47 47 48 48 49 50 51 51 51
Faculty of Medicine	52
Graduate Study Faculty of Medicine Graduate Enrolment Procedures Graduate Courses School of Community Medicine 2855 Master of Community Health by Research 53, 9020 Master of Community Health by Formal Course Work 54 2845 Master of Public Health by Research 54, 9045 Master of Public Health by Formal Course Work 54	53 53 53 53
School of Medical Education	55
School of Paediatrics	56
School of Psychiatry	57
Graduate Study: Subject Descriptions Identification of Subjects by Numbers Anatomy Pathology Paediatrics Psychiatry Medical Education Community Medicine Faculty of Medicine	59 60 61 61 61 62 63 65 67
Conditions for the Award of Higher Degrees Doctor of Philosophy Doctor of Medicine by Published Work Doctor of Medicine by Thesis Doctor of Medicine by Thesis without supervision Master of Community Health by Research Master of Community Health by Formal Course Work Master of Health Personnel Education by Research Master of Health Personnel Education by Formal Course Work Master of Paediatrics Master of Paediatrics Master of Psychotherapy Master of Public Health by Formal Course Work Master of Engineering and Master of Science Master of Engineering, Master of Science and Master of Surveying without supervision Master of Surgery Graduate Diploma in Paediatrics	69 71 73 74 75 76 78 80 80 81 82 83 84 85 86 88
Scholarships and Prizes Scholarships Undergraduate Graduate Prizes Undergraduate Graduate	89 89 90 93 93 93

1991

Calendar of dates

1990

Session 1 (67 teaching days)

	26 February to 12 April	4 March to 28 March	
Recess	13 April to to 22 April	29 March to 7 April	
	23 April to 7 June	8 April to 14 June	
Study Recess	8 June to 13 June	15 June to 20 June	
Examinations	14 June to 2 July	21 June to 9 July	
Midyear Recess	3 July to 22 July	10 July to 28 July	
Session 2 (67 teach	ing days)		
	22 July to 21 September	20 July to 27 September	

Recess	22 September to 1 October 2 October to 31 October 1 Neuerber to 6 Auerber	28 September to 7 October 8 October to 6 November 7 November to 12 November
Study Hecess	T November to 6 November	7 November to 12 November
Examinations	7 November to 23 November	13 November to 29 November
Vacation weeks	16 April to 22 April	1 April to 7 April
common to Australian	2 July to 8 July	8 July to 14 July
universities	24 September to 30 September	30 September to 6 October

Important Dates for 1990

January

- M 1 New Year's Day Public Holiday
- F 5 Last day for acceptance of applications by office of the Admissions Section for transfer to another undergraduate course within the University
- W 10 Last day for applications for review of assessment
- M 15 Term 1 begins Medicine IV and V
- F 26 Australia Day Public Holiday

February

- M 5 Enrolment period begins for new undergraduate students and undergraduate students repeating first year
- F 9 Re-enrolment period begins for second and later year undergraduate and graduate students enrolled in formal courses
- F 23 Last day for acceptance of enrolment by new and re-enrolling students
- M 26 Session 1 begins all courses except Medicine IV and V and the University College

March

- M 5 Session 1 begins University College, Australian Defence Force Academy
- F 9 Last day applications are accepted from students to enrol in Session 1 or whole year subjects
- F 30 Last day for students to discontinue Session 1 and whole year subjects so as not to incur HECS liability .
- S 31 HECS Census Date for Session 1

April

Th	12	Last day for students to discontinue without failure subjects which extend over Session 1 only
F	13	Good Friday – Public Holiday Mid session Booss borins
S	14	Easter Saturday Public Holiday

M 16 Easter Monday - Public Holiday

Medicine

Anri	1	
Su	22	Mid-session Recess ends
W	25	Anzac Day – Public Holiday
May		
T	8	Publication of provisional timetable for June examinations
W.	16	Last day for students to advise of examination clashes
Τ.	29	Publication of timetable for June examinations
Jun		
Th	7	Session 1 ends
F	8	Study Recess begins
М	11	Queen's Birthday – Public Holiday
W	13	Study Recess ends
Th	14	Examinations begin
July	,	
M	2	Examinations end
Th	12	Assessment results mailed to students
F	13	Assessment results displayed on University noticeboards
Su	22	Mid-year Recess ends
Μ	23	Session 2 begins
Aug	ust	
Th	2	Last day for applications for review of Session 1 assessment results
F	3	Last day for students to discontinue without failure subjects which extend over the whole academic year. Last day applications are accepted from students to enrol in Session 2 subjects.
F	31	HECS Census Day for Session 2. Last day for students to discontinue Session 2 and whole year subjects so as not to incur HECS liability
Sep	temb	er
F	7	Last day for students to discontinue without failure subjects which extend over Session 2 only
S	22	Mid-session Recess begins
F	28	Closing date for applications to the Universities and Colleges Admission Centre
Octo	ober	
М	1	Labour Day – Public Holiday Mid-session Recess ends
Т	2	Publication of provisional timetable for November examinations
W	10	Last day for students to advise of examination clashes
Т	23	Publication of timetable for November examinations
Nov	emb	ər
Th	1	Study Recess begins
Т	6	Study Recess ends
W	7	Examinations begin
F	23	Examinations end
Dec	embe	pr
M	10	Assessment results mailed to students
T	11	Assessment results displayed on University noticeboards
т	25	Christmas Day - Public Holiday

- T25Christmas Day Public HolidayW26Boxing Day Public Holiday
- M 31 Public Holiday

Staff*

Comprises Schools of Anatomy, Community Medicine, Medical Education, Medicine, Obstetrics and Gynaecology, Paediatrics, Pathology, Physiology and Pharmacology, Psychiatry, and Surgery.

Dean Professor W.E. Glover

Chairman Professor I.W. Webster

Senior Lecturer **Edward Maxwel Nicholls, MD BS Adel.

Executive Officer Peter William Cook, BE James Cook

Administrative Officer Gordon Lester Rees

Administrative Assistants Doreen Frances Canavan Janet Kay McLean, BBus *N.S.W.I.T.* Mova Patricia Pedemont

School of Anatomy

Associate Professor and Head of School Istvan Joseph Tork, MD Bud.

Professor of Anatomy Frederick William Dickes Rost, BSc(Med) MB BS Syd., PhD DCP Lond., DipRMS Associate Professor David James Tracey, BSc Syd., PhD Stan.

Senior Lecturers Ewa Krystyna Bystrzycka, MD *Lodz*. Darrel Ananda Fernando, BVSc *Ceyl.*, PhD *Lond*. Brian Warwick Freeman, BSc *Syd.*, PhD *N.S.W.* Saw Kin Loo, MB BS *Malaya*, PhD *Sing*. Murray Stanley Smith, BSc PhD *Cant.*, MHPEd *N.S.W.* Phil Mary Elizabeth Waite, BSc PhD *Lond.*, MB ChB *Otago*

Lecturers

Kenneth William Scott Ashwell, BMedSc MB BS N.S.W., PhD Syd.

Elizabeth Jane Tancred, BSc PhD N.S.W. Dzung Huu Vu, MD Saigon, MB BS N.S.W. DipAnat, ASANZ Bruce Walmsley, BE PhD Monash

Senior Tutor Damayanthi Hemamali Atapattu, BSc PhD Ceyl., MSc Ohio

Tutor Priti Pandey, MB BS Nag., MD Ban.

Professional Officers Patrick John de Permentier, MSc N.S.W. Paul Halasz, MSC *Bud.* Geoffrey Douglas Schneider, BSc *Qld.*

Honorary Visiting Professor Maurice Arnold, MB ChB Witw., Hon. MD N.S.W., FRCSEd

*See end of this section for Conjoint Key

Honorary Visiting Fellow Lawrence John Gray, MB BS Syd., FRACS

Administrative Assistant Lorraine Brooks

School of Community Medicine

Professor of Drug and Alcohol Services and Head of School Ian William Webster, MD BS *Melb.*, FRACP, FRACGP, FRACMA, FACRM

Professor of Geriatrics Peter Frank Sinnett, MD BS Syd., FRACP, FACRM

Professor of Community Medicine Vacant

Professor of Aged and Extended Care Vacant

Associate Professor of Rehabilitation ‡Richard Frederick Jones, MB BS Syd., DPRM, FRCS, FRCSEd, FRACS, FRACP

Associate Professors Robyn Lesley Richmond, MA Syd., PhD N.S.W.

‡John Ambler Snowdon, MA MB BChir Camb., MPhil Lond., FRACP,

MRCPsych, MRANZCP

Senior Lecturers

OJohn Bernard Baggott, MB BS Syd. DipPhy., RCP(Lon), FACRM

#Hugh Dickson, MB BS Old, FACRM

Lawrence Yook Chee Lai, BSc PhD W.A., MHPEd N.S.W.

Andrea Mant, MB BS Syd., FRACP

Paul Murray McNeill, MA Cant., LLB Otago

Deborah Claire Saltman, MB BS Syd.

††Philip Sambrook, MD BS N.S.W., FRACP

Alan Edmund Stark, BA Adel., MA PhD N.S.W., DipT Adel.T.C.

##George Meredith Stathers, MB BS Syd., FRACP

‡Jeremy Somers Wilson, MD, FRACP

Lecturers

††Russell Donald Clark, MB BS DTM&H *Syd.*, FRACP **†Andrew Malcolm Cole, BSc MB BS** *Syd.*, FACRM, RACOG **‡Stella Engel, MB BS** *N.S.W.* **DPRM, FACRM Heather Linley Judd, MB BS** *N.S.W.* **‡Helen Molony, MB BCh.**, FRANZCP **†Christopher John Poulos, MB BS** *Syd.*, FACRM **‡Tuly Rosenfeld, MB BS** *Syd.*, FRACP **‡John Alan Ward, MB BS** *Old.*, MSc *Lond.* Honorary Associate

George Garrett Burniston, CMB, OBE, MB BS Syd., DPRM, FACMA, FRSH

Honorary Visiting Fellows Gabriel Godoco Carreon, MD Philippines, FRACMA

Joyce Margaret Ford, BSc MB BS Svd., FRACMA

David George Fox, MB BS DPH Syd., FRACMA

Francis Bathurst Halliday, MB BS Syd., DOM(SRCP&S), FRACO

Benedetto Haneman, MB BS Syd., FRACP

Keith Wallington Hills Harris, ED, MB BS DPH Syd., FRACMA, FCCP, FRIP

Michael James Harris, MB BS Syd., DCH(RCP&S), FRCP, FRACP

John Hans Hirshman, MB BS DPH DTM&H Syd., FRACMA Peter MacDonald Trebilco, BA Syd.

Peter Podmore Manzie, ED BA, MB BS Syd., FRACGP, MHPEd N.S.W.

Nanette Stacy Waddy, MBE, MB BS Syd., FRANZCP

Professional Officer Stephen Ronald Lord, BSc MA Syd.

School of Medical Education

Associate Professor and Head of School Arie Rotem, BA Jer., MA PhD *Calif.*

Professor of Surgery

Kenneth Russel Cox, MB MS Melb., MA Mich.State, FRCS, FRACS, FACS

Senior Lecturers

Raja Christie Bandaranayake; MB BS Ceyl., PhD Lond., MSED S.Calif.

Magnus Stiernborg, BA PhD Stockholm

World Health Organization Regional Training Centre

Director

Arie Rotem, BA Jer., MA PhD Calif.

Director of Academic Programs

Raja Christie Bandaranayake, MB BS Ceyl, PhD Lond., MSED S.Calif.

Visiting Fellows

Christine Dennis, MHPEd, DipAppBSc, DipEd

John Colin Harris Dewdney, BA MD BS *Melb.*, SM *Harv.*, DPH *Lond.*, DipFinMangt DipTertEd N.E., FFCM, FRACMA, FHA, MACE

Senior Lecturer Victor Nossar, MB BS N.S.W., FRACP Tutor Robin Gossip, BA, DipN, DipB&M

School of Medicine

Chair

Professor J.B. Hickie

The Prince Henry and The Prince of Wales Hospitals

Professor of Medicine and Head of Department John Michael Dwyer, MB BS Syd., PhD Melb., FRACP

Professor of Clinical Neurophysiology ‡David James Burke, MD DSc N.S.W., FRACP

Professor of Neurology ‡James Waldo Lance, CBE, MD BS Syd., FAA, FRCP, FRACP

Associate Professors

#Michael Anthony, OBE, MD BS Syd., FRCP, FRACP Terry Dorcen Bolin, MB BS Syd., MD N.S.W., DCH Lond., FRCP, FRACP, MRCPEd

‡Clement Russell Boughton, MB BS DTM&H Syd., MD N.S.W., FRCP, FRACP

‡John Alfred Charlesworth, MB BS *N.S.W.*, MD *Syd.*, FRACP Hal John Hester Colebatch, MD BS *Adel.*, FRACP

Alan Edward Davis, MD BS Syd., BSc MA Oxf., FRCP, FRACP

Graham Jon Macdonald, BSc(Med) MB BS Syd., MD N.S.W., FRACP, FRCP

‡lan Provan Cathcart Murray, MD ChB Glas., FRCPEd, FRACP, Hon. FACR

David Emil Leon Wilcken, MD BS Syd., FRCP, FRACP

Associate Professor in Diagnostic Radiology ‡Frederick John Palmer, MB ChB Sheff., DMRD Lond., FRCR, FRACR, MRCP

Senior Lecturers ‡Roger Maxwell Allen, MB BS, FRACP +Coeffrey Burstel Field, BSe(Med) MB BS, Sud, MD, M

‡Geoffrey Burstal Field, BSc(Med) MB BS Syd., MD N.S.W., FRACP

Simon Charles Gandevia, BSc(Med) MB BS PhD N.S.W.

‡Robert Walter Giles, MB BS N.S.W., FRACP

John David Gillies, MB BS Syd., MD N.S.W., FRACP

\$Philip David Jones, MB BS Syd., PhD A.N.U., FRACP

‡Richard Michael McCredie, MD, FRCP, FRCP *Edin.*, FRACP, FACC

‡David Kenneth McKenzie, BSc(Med) MB BS Syd., FRACP ‡Monica Anne Rossleigh, MB BS N.S.W., FRACP ‡Warren Frederick Walsh, MB BS Syd., FRACP, FACC

Lecturers ‡Roger Cole, MB BS Lon., FRACP ‡Vimala Venugopalan Nayanar, MB BS Madras, DDU *Syd.*, MRACR

‡Robert Leo Philips, BSc MB BCh Witw., DMRD Lond., DDUAustSocUltMed, FRCR, MRACR

‡Tuly Rosenfeld, MB BS Syd., FRACP

Professional Officers Clifford Ng, MSc N.S.W. Helen Margaret Theile, BSc Qld., MSc N.S.W.

Administrative Assistant Philomena Anne Elmes

St George Hospital

Senior Lecturer and Head of Department Steven Anthony Krilis, MB BS N.S.W. FRCP

Professor of Medicine Vacant

Professor of Rheumatology †John Patrick Edmonds, MB BS Syd., FRACP

Senior Lecturers †Mark Ashley Brown, MB BS MD, FRACP David John de Carle, MB BS *N.S.W.*, FRACP †Beng Hock Chong, MB BS *Malaya*, PhD *Syd.*, MRCP, FRACP, FRCPA †Louis Eugene McGuigan, MB BS *N.S.W.*, FRACP

Donald Sidney Pryor, MD BS Syd., FRACP

St Vincent's Hospital

Professor of Medicine and Head of Department John Bernard Hickie, AO, MB BS *Syd.*, FRCP, FRCPEd, FRACP, FACC, FACPHon.

Professor of Clinical Immunology Ronald Penny, MD BS Syd., DSc N.S.W., FRACP, FRCPA

Professor §Leslie Lazarus, MB BS Syd., FRACP, FRCPA, FAACB

Associate Professors ††James Crawford Biggs, MB BS *Syd.*, DPhil *Oxf.*, FRACP, FRCPA §Donald John Chisholm, MB BS *Syd.*, FRACP

☆David Albert Cooper, BSc(Med) MD, FRACP, FRCPA ††Bruce David Doust, BSc(Med) MB BS, FRACR, DDR, DDU, DABR, DABNM

§Edward William Kraegen, BSc PhD *N.S.W.* MACPSM Michael Francis O'Rourke, MD BS *Syd.*, FRACP, FACC Leon Abraham Simons, BSc(Med) MD BS *Syd.*, FRCP, FRACP §Robert Lyndsay Sutherland, MAgSc *Cant.*, PhD *A.N.U.*

Senior Lecturers

ttSamuel Breit, MD BS, FRACP, FRCPA

++David Hamilton Bryant, MD BS Syd., FRACP

††Milton Laurence Cohen, MD, FRACP

++Paul Darveniza, MD BS Syd., FRACP AAAN

§John Allan Eisman, BSc(Med) *Syd.*, MB BS *Syd.*, PhD *Melb.*, FRACP

††Michael Fenely, MD, FRACP

Donald John Frommer, BSc MD BS Lond., FRCP, FRACP ††Michael Anthony McGrath, MB BS Syd., MD N.S.W., FRACP ††Philip Sambrook, MD BS N.S.W., FRACP ††William Arthur Sewell, MB BS BSc Syd., PhD Melb.

§George Albert Smythe, BSc PhD N.S.W.

§Margaret Catherine Stuart, BSc MSc Syd., PhD N.S.W.

††Robert Charles Wright, MB BS *Syd.*, FRACP, FFARACS, HFIAO

Lecturers

††Santhirasegaram Balabrasubramaniam, MSc PhD Lond., FRSC

ttGordian Ward Oskar Fulde, MB BS Syd., FRACS, FRCS Edin., FRCS RCP AE, FACEM

++James Michael Hayes, MB BS Syd., FRACP

++Ronald Michael Malor, BSc PhD Syd.

††Alexander David Wodak, MB BS Syd., FRACP MRCP

Honorary Visiting Professor Geoffrey Thomas Benness, MB BS Qld., DCRA, FRACR

Honorary Visiting Fellows Glen Page Gravlee, BSM, MD Northwestern William Kenneth Amedee Paver, MB BS Syd., DDM, FACD, FRACP

School of Obstetrics and Gynaecology

Professor of Obstetrics and Gynaecology and Head of School Michael Julian Bennett, MB ChB MD *CapeT.*, FRCOG, FRACOG, FCOG(SA), DDU

Associate Professor

VFrederick Hacker, MB BS Qld., FRACOG, MRCOG, FACOG, FACOG, FACS

Senior Lecturers

Karen Annette Duggan, BSc MB BS *Syd.*, FRACP John Anthony Eden, MB BS *N.S.W.*, FRACOG, MRCOG

Graeme Jackson Hughes, MB BS N.S.W., FRACOG, FRCOG

Leo Robin Leader, MD ChB CapeT., FRACOG, FCOG(SA), FRCOG, DARCS

David Charles Ross Macourt, MB BS Syd , FRCOG, FRCSEd, FRACOG

#Charles Patrick McCusker, MB BS Adel., FRCOG, FRCS, FRACOG

Lecturers

Randall Edmund Fray, MB ChB CapeT., MRCOG

Stephen Dan Horrowitz, MB ChB CapeT., MRCOG, FCOG(SA), MRACO

Deborah Margarette Wass, MB BS *Syd.*, MRCOG, FRACOG Michael Allin Webster, MB BS *N.S.W.*, FRACOG, MRCOG

School of Paediatrics

Professor of Paediatrics and Head of School John Beveridge, AO, MB BS Syd., FRACP

Visiting Professor

Leslie Herbert Stevens, MB ChB BSc N.Z., PhD Lond., FRACP

Associate Professors Gabriel Antony, MD Bud., FRACP, LRCPSEd, LRFPSGlas, DABP, DABPE Jagdish Mitter Gupta, MB BS Malaya, MD Sing., DCH Lond., FRCPEd, FRACP Darcy William O'Gorman Hughes, MB BS Syd., MD N.S.W., FRACP ‡Graeme John Morgan, MB BS Syd., FRACP *Bernard William Stewart, MSc N.S.W., PhD Lond., ARACI

#Bemard William Stewart, MSC N.S.W., PhD Lond., ARACI ‡Gillian Turner, MB ChB St.And., DCH, MRCPE., FRCPC

Senior Lecturers

‡Bruce George Currie, MB BS *N.S.W.*, FRACS
‡Owen David Hugh Jones, BA *Cant.*, MB BChir, MRCP
‡Robert Francis Clifford Jones, MB BS *Syd.*, FRCS, FRACS
John Douglas Mitchell, MB BS *Melb.*, FRACP
‡Edward Chee Pong Shi, MB BS, MS *N.S.W.*, FRACS
‡Marcus Rex Vowels, MB BS *Syd.*, FRACP
‡Leslie White, MB BS *Syd.*, FRACP
‡John Bernard Ziegler, MB BS *Syd.*, FRACP

Lecturer

*Michelle Haber, BSc PhD N.S.W.

Visiting Professor

Michael Walter Partington, MB BS PhD Lond., FRCP, DCH, FRCPCanada, FCCMG

Administrative Assistant Jeffrey Eric Saynor

School of Pathology

Professor of Pathology and Head of School Athol William John Lykke, MD BS Adel., FRCPA, MRCPath

Staff: Medicine

Professors

‡Colin Nicholson Chesterman, MB BS Syd., DPhil Oxf., FRACP, FRCPA ‡Bruce Albert Warren, BSc(Med) MB BS Syd., DPhil DSc Oxf., FRCPath, FRCPA

Associate Professors

\$ydney Malcolm Bell, MD BS Syd., FRCPA
Cameron Rolfe Howlett, BVSc PhD Syd., MRCVS, MACVSc
Daya Naidoo, MB ChB MD Natal, FRCPA, MAACB
Garry John Smith, BSc Syd., PhD W.A..
Denis Wakefield, MD BS N.S.W., FRACP, FRCPA

Senior Lecturers

†Thomas Albert Cook, MB BS *Manc.*, FRCPath, FRCPA ‡Michael John Denton, MB ChB *Brist.*, PhD *Lond.*, FRCPA ††Anthony Dodds, MB BS *Syd.*, FRCPA, FRACP

†Susan Gordon, MB BS Syd., FRCPA, FRACP, FRCPath Eng. ††John Latham Harkness, MB BS *Monash*, DCP *Lond.*, FRCPA

Shirley Grace Higgins, MB BS Syd., MD N.S.W.

Rakesh Kamal Kumar, MB BS All India IMS, New Delhi, PhD N.S.W.

‡Pierre Regis Lim Chow Lam-Po Tang, MB ChB Manc., MRCS DCP Lond., FRCPA, FRACP, FRC(Path), MBE

††Vincent Frederick Munro, MB BS DCP Syd., FRCPA

†Elizabeth Anita Reiss-Levy, MB BS Syd., DCP Syd., FRCPA, MASM

‡John William Tapsall, MB BS Old., FRCPA

‡Peter Charles Taylor, MB BS N.S.W., FRCPA

‡Jimmy Long Chai Yong, BSc(Med) MB BS PhD N.S.W., FRCPA

Lecturers

Nicholas Hawkins, MB BS N.S.W. Gregory Charles Rhodes, MB BS N.S.W.

Honorary Associate

Gordon Thomson Archer, MB BS DCP Syd., FME, FRCPA, MRACP

Carcinogenesis Research Unit

Director and Associate Professor Garry John Smith, BSc Syd., PhD W.A..

School of Physiology and Pharmacology

Professor and Head of School

Douglas Ian McCloskey, BSc(Med) MB BS Syd., DPhil Oxf., DSc N.S.W., FRACP, FAA

Professors of Physiology

Walter Ernest Glover, MB BCh BAO MD DSc *Belf.*, FRACP Eugenie Ruth Lumbers, MD BS *Adel.*, DSc *N.S.W.*, Mark Joseph Rowe, BPharm MSc *Syd.*, PhD DSc *N.S.W.*

Professor of Clinical Pharmacology Richard Osborne Day, MB BS Syd., MD N.S.W., FRACP

Professor

†David Brunton Gibb, BSc(Med) MB BS Syd., DObstRCOG Lond., FFARCS, FRCS, FFARACS

Associate Professor

Robert Alastair Beveridge Holland, MD BS Syd., FRACP

Senior Lecturers

Peter Hosford Barry, BSc PhD *Syd.* Terence John Campbell, BSc(Med) MB BS *N.S.W.*, DPhil *Oxf.*, FRACP John Joseph Carmody, MD BS *Qld.* David George Garlick, BSc(Med) MB BS *Syd.*, PhD *A.N.U.* Gary George Graham, MSc PhD *Syd.* Bruce Stanley Nail, BSc *W.A..*, DPhil *Oxf.* Ian Richard Neering, BSc PhD *N.S.W.*, MSc *Syd.* Michael Alan Perry, MRurSc N.E., PhD *N.S.W.*

¶Erica Kathleen Potter, BSc Syd., PhD N.S.W.

Lecturers

Gillian Phyllis Courtice, BSc PhD *Syd.* Dana Domnica Jamieson, MSc *Syd.* ‡Dennis Robert Kerr, MB BS *N.S.W.*, FFARACS, DipABA

Tutors

Andrew Neil Davies, BSc *Monash* Mark Robert Goldstein, BSc *N.S.W.* Rosemary Christina Kingsford, BSc *Syd.*, DipEd *SydTeachersColl.*, DipAnimalCare *N.S.W.I.T.* Regan Pallandi, BSc *N.S.W.* Lesley Gail Ulman, BSc MBChB *Witw.*

Professional Officers Edward Norman Crawford, BE N.S.W.I.T. Kenneth Harry Curtis, AIS&T(Lond) Andrew Donald Stevens, PhD N.S.W.

Honorary Visiting Professors Frederick Colin Courtice, MA DPhil Oxf., DSc Syd., Hon.MD N.S.W., LRCP, FRACP, FRACS, FAA, MRCS

Denis Newell Wade, BSc(Med) MB BS Syd., DPhil Oxf., FRACP

Honorary Associates Mervyn John Cross, MB BS Syd., FRACS Bernard Joel Lake, MB BS Syd., MRCP, MRCPEd William Frederick Webb, MB BS Syd.

School of Psychiatry

Professor and Head of School

Gordon Barraclough Parker, MB BS Syd., MD PhD N.S.W., FRANZCP

Professors

John Gavin Andrews, ChB MD Otago, DPM *Melb.*, FRANZCP, MRCPsych

‡Brent Geoffrey Herbert Waters, MB BS *Monash*, FRANZCP, FRCPS Can.

Associate Professor

Nathaniel McConaghy, MB BS Qld., BSc MD DPM Melb., FRANZCP

Senior Lecturers

Bryanne Ethel Waldie Barnett, MB ChB Aberd., FRANZCP

Philip Manley Boyce, MB BS Lond., DipPsychother Adel., FRANZCP, MRCS, LRCP

‡Henry Brodaty, MB BS Syd., FRACP, FRANZCP

++Neil Steven Buhrich, MB BS *Syd.*, MD *N.S.W.*, DPM *Lond.*, MRCPsych

††James Graham Durham, MB BS Adel., DPM Melb., FRANZCP

†Karl Max Koller, MB BS Syd., MD N.S.W., FRANZCP, FRC Psych

‡Florence Levy, MB BS *Melb.*, MPh *Yale*, MD *N.S.W.* MRANZCP

Philip Bowden Mitchell, MB BS Syd., MRCPsych, FRANZCP

‡Richard John Perkins, MB BS Lond., DPM(RCP&RCS), MRCPsych

Carolyn Quadrio, MB BS, DPM, FRANZCP

Derrick Michael Silove, MB ChB CapeT., FRANZCP

‡Noel Maurice Wilton, MB BS Syd., FRACP, FRANZCP

Lecturers

Charles Post Doutney, MB BS, FRANZCP
Brian Michael Draper, MB BS Syd., FRANZCP
Michael Dudley, MB BS Syd., BD Melb., FRANZCP
Hedgar David d'Arigdor Freed, MB ChB Witw., FRANZCP
Perminder Singh Sachdev, MB BS, MD, MRANCP

Tutor

Renate Wagner, PhD Austria

Honorary Visiting Fellows Alexander Blaszczynski, BA N.S.W., MA DipPsych Syd., MAPS

Dusan Hadzi-Pavlovic, BSc MPsychol N.S.W.

Brian Oldenberg, BSc MPsychol N.S.W.

Administrative Assistant Sandra Beryl Rae Evans

School of Surgery

Chair Professor R.S.A. Lord

The Prince Henry and The Prince of Wales Hospitals

Associate Professor and Head of Department John MacKenzie Ham, MD BS Syd., FRACS, FACS

Professor of Surgery Vacant

NSW State Cancer Council - Professor of Oncology ‡H Rodney Withers, MB BS *Qld.*, PhD DSc *Lon.*, FRACR

Associate Professor of Ophthalmology Frederick Cossom Hollows, MD ChB N.Z., DO Lond., FRCS, FACO

Senior Lecturers Graham Leonard Newstead, MB BS Syd., FRCS, FRACS, FACS

‡Philip Gregory Truskett, MB BS Syd., FRACS Bryan Wheaton Yeo, MB BS Syd., FRCS, FRACS

Senior Project Scientist Margaret Anne Rose, BVSc Syd., PhD N.S.W.

St George Hospital

Professor of Surgery and Head of Department David Lawson Morris, MD ChB Birm., PhD Nott., FRCS, FRACS

Associate Professors

†William James Cumming, MB BS *Syd.*, FRACS David Robert Hunt, MD BS *Syd.*, FRACS Christopher John Magarey, BSc(Med) MB MS *Syd.*, FRCS, FRACS

Lecturers

†Theresa Jacques, MB BS Monash, FFARACS †Ronald Sekel, MB BS Syd., MBiomedE N.S.W., FRACS

St. Vincent's Hospital

Professor and Head of Department Reginald Sidney Albert Lord, MD BS Syd., FRCS, FRACS

Senior Lecturers ++Ronald Ernest Benson, MB BS, FRACP, FFARACS

Staff: Medicine

++Derek Oliver Berg, MB BS *Syd.*, FRCS, FRACS, MRACR David Alexander Hill, MB BS *Syd.*, MS *N.S.W.*, FRCS, FRACS, FRCSEd

Lecturers

Anthony Robert Graham, MB BS Syd., FRCS, FRACS ++Richard Priestly Lee, MB BS, FFARACS

††Graeme William Morgan, BPharm, MB BS Syd., MRCP, PRACP

Department of Anaesthetics and Resuscitation

Associate Professor and Head of Department ††Gordon Alfred Harrison, MB BS Syd., MHPEd N.S.W., FFARACS

Professor

†David Brunton Gibb, BSc(Med) MB BS Syd., DObstRCOG Lond., FFARCS, FRCS, FFARACS

Associate Professors

††Geoffrey Ronald Cutfield, MB ChB Otago, DPhil Oxf., FFARACS

Thomas Andrew Gabriel Torda, MB BS Syd., MD N.S.W., DA Lond., DipABA, FFARCS, FFARACS

Senior Lecturers

‡George Madgwik Davidson, MB BS DA Syd., FFARACS VStephen Paul Gatt, MD Malta., FFARACS, MRCS, LRCP

++Brian Francis Horan, MB BS Syd., FFARCS, FFARACS

Lecturers

#Michael George Beaudoin, MB BS Syd., FFARACS
#Neil Thomas Bradburn, MB BS Syd., FFARACS
#Judith Mary Branch, MB BS Syd., FFARACS
#Theresa Jacques, MB BS Monash, FFARACS
#Keith Kelly, MB BS N.S.W., FFARACS
#Richard Walter Morris, MB BS Syd., FFARCS

Department of Traumatic and Orthopaedic Surgery

Hugh Smith Professor of Traumatic and Orthopaedic Surgery and Head of Department Ronald Lawrie Huckstep, CMG, MA MD *Camb.*, FRCSEd, FRCS, FRACS, FTS

Lecturer ‡Allan John Pollack, MB BS Syd., FRCSEd, FRACS

Honorary Associate Mervyn John Cross, MB BS Syd., FRACS

Administrative Assistant Renee Claire Hannan

Clinical Teaching Administration

The Prince Henry and Prince of Wales Hospitals

Warden of Clinical Studies Maxwell Elmore Cochrane Thorpe, MB BS Syd., MD N.S.W., FRACP

Administrative Assistant Margaret Mary Coyle

St George Hospital

Administrative Assistant Juliet Wight-Boycott

St Vincent's Hospital

Administrative Assistant Monica Mary Adams, DipPhysTher Syd.

Sutherland Hospital

Clinical Supervisor Louis Eugene McGuigan, MD, FRACP

Liverpool Hospital

Administrative Assistant Susan Sprowls B.A. NSW

Biomedical Electron Microscope Unit

Electron Microscopist Melvyn Roderick Dickson, BSc N.Z., PhD A.N.U., DipRMS

Senior Technical Officer Serge Kouprach

Medical Illustration Unit

Head Michael John Oakey, ABIPP, AIMBI, RBI

Senior Technical Officer Don Strachan

Biomedical Mass Spectrometry Unit

Director Vacant David John Bourne, BAppSc Darling Downs C.A.E., BSc N.S.W.

NHMRC Special Unit in AIDS Epidemiology and Clinical Research

Associate Professor and Director David Albert Cooper, BSc(Med) MB BS Syd., MD N.S.W., FRCPA, FRACP

- Advisory Committee Professor W. E. Glover (Chair)
- Professor B. Armstrong

Professor A. Basten

Associate Professor D. A. Cooper

Professor J. M. Dwyer

Dr J. Gold

Professor R. Heller

Professor S. R. Leeder

Professor J. Matthews

Professor R. Penny

Dr M. Ross

Centre for Continuing Medical Education

Honorary Director George Dimitri Repin, MB BS, DPH Syd., DIH(RCP&S), FRACMA, FAIM

Executive Secretary Charles Paul Moess, DJur E.L., BA Syd., MHPEd N.S.W.

Advisory Committee Professor I. W. Webster (Chair) Associate Professor J. C. Biggs Dr D. G. Garlick Professor W. E. Glover Dr. G. J. Hughes Mr. C. P. Moess Dr. G. D. Repin Associate Professor D. Wakefield Mr. P. W. Cook

Centre for Experimental Neurology

Director Professor J. W. Lance

Advisory Committee Professor D. J. Burke Professor W. E. Glover Professor J. W. Lance Professor D. I. McCloskey Associate Professor M. J. Rowe Associate Professor D. J. Tracey

Illawarra Centre for Community Medicine

Director Dr P. Mowbray

Advisory Committee Professor I. W. Webster Dr P. J. Brennan Professor D. Calvert Associate Professor C. Ewan Professor W. E. Glover Dr L. Goldman Mr. G. Sullivan Dr H. W. Vickers

Centre for Immunology

-St Vincent's Hospital

Director Associate Professor R. Penny

Advisory Committee Professor W. E. Glover (Chair) Professor A. Wicken Professor R. Penny Professor G. N. Cooper

Centre for Public Health

Director Dr G. K. Rawson

Advisory Committee Professor I. W. Webster (Chair)

Staff: Medicine

Professor K. R. Cox Professor W. E. Glover Professor J. S. Lawson Dr G. K. Rawson Professor A. Vinson

National Drug and Alcohol Research Centre

----Prince of Wales Hospital

Professor and Director Brian Bernard Heather, BA Lond., MSc Leeds, PhD Dundee

Associate Professor and Deputy Director Wayne Denis Hall, BSc PhD N.S.W.

Associate Professor and Head, Brief Intervention Unit Robyn Lesley Richmond, MA Syd., PhD N.S.W.

Lecturers Janet Darlene Greeley, BSc Newfoundland, MA PhD Toronto Richard Phillip Mattick, BSc N.S.W.

Board of Management The Hon. K. Rozzoli M.P. (Chair)

Mr M. L. Edwards Professor A. D. Gilbert

Professor W. E. Glover

Professor B. B. Heather

Ms F. Howarth

Dr M. MacAvoy

Dr N. Swan

Garvan Institute of Medical Research

- St Vincent's Hospital

Professor and Executive Director Leslie Lazarus, MB BS Syd., FRACP, FRCPA, FAACB

Professor and Deputy Director John Shine, BSc PhD A.N.U.

Senior Principal Research Fellow Peter Philip Gray, BSc Syd., PhD N.S.W., FIEAust, MAmeriChe, MABA

Principal Research Fellows Donald John Chisholm, MB BS *Syd.*, FRACP Edward William Kraegen, BSc PhD *N.S.W.*, MACPSM Robert Lyndsay Sutherland, MAgSc *Cant.*, PhD *A.N.U.* Senior Research Fellows John Allan Eisman, BSc(Med) *Syd.*, MB BS *Syd.*, PhD *Melb.*, FRACP George Albert Smythe, BSc PhD *N.S.W*. Margaret Catherine Stuart, MSc *Syd.*, PhD *N.S.W*.

Advisory Board Mr C.P. Curran (Chair) Professor L. M. Birt (Deputy Chair) Mr J. H. Gardener (Treasurer) Mr R. S. Adler Sister Maria Cunningham RSc Mr A. C. Fitzgerald Mr G. Gleeson Professor W. E. Glover Mr P. Griffin Professor G. M. Kellerman Professor L. Lazarus Mr D. R. Magarey Dr R. B. Spencer Dr R. J. J. Stewart Mr J. P. Yonge

Children's Leukaemia & Cancer Research Unit

- Prince of Wales Children's Hospital

Director

Darcy William O'Gorman Hughes, MB BS Syd., MD N.S.W., FRACP

Principal Research Fellow Bernard William Stewart, MSc N.S.W., PhD Lond., ARACI

Visiting Professor Murray Judson Fraser, MSc Dal., PhD Cam.

Research Fellow Michelle Haber

Advisory Committee Professor J. Beveridge Professor A. P. Gilbert Professor W. E. Glover Dr B. A. Grunseit Associate Professor D. W. O'Gorman Hughes Mr D Reece Associate Professor B. W. Stewart Dr M. R. Vowels

Skin and Cancer Foundation

Chief Executive Officer Mr L. M. Lewis, AASA, CPA

Medicine Conjoint Key

**Conjoint appointment with the Faculty of Engineering

‡Conjoint appointment with Prince Henry and Prince of Wales Hospitals

††Conjoint appointment with St Vincent's Hospital

+Conjoint appointment with St George Hospital

‡‡Conjoint appointment with Sutherland Hospital

V Conjoint appointment with Royal Hospital for Women

#Conjoint appointment with St Margarets Hospital

OConjoint appointment with Royal South Sydney Hospital Conjoint appointment with Childrens Leukaemia and Cancer Research Unit.

§Conjoint appointment with Garvan Institute of Medical Research

¶Conjoint with appointment as a National Health and Medical Research Council Senior Research Fellow

☆Conjoint with appointment as a National Health and Medical Research Council Principal Research Fellow

Message to New Students from the Dean

It is a pleasure to welcome you to The University of New South Wales and to congratulate you on your entry to the medical course. Competition for entry to this course is intense and you have all demonstrated considerable academic achievement in obtaining a place. You are, therefore, well equipped to commence your undergraduate studies and I sincerely hope that your years as students in the Faculty will be happy, interesting and productive.

The Faculty of Medicine in this University was founded in 1959 and has developed into a strong and vigorous academic community. It offers opportunities for you to develop knowledge, skills and experience in a wide variety of fields ranging from the personal problems of patients to matters which are of a most complex technological and scientific nature. Over the past 29 years the medical undergraduate curriculum has evolved in accordance with changing concepts in medicine and the changing needs and expectations of the community. The curriculum is under constant review and it is probable that changes will occur during your undergraduate years. Indeed, 1988 saw the introduction of the first year of a new six year undergraduate curriculum. The new course came after considerable review of the former five year curriculum and one of its objectives is to give students more time to reflect upon their studies in the pre-clinical years and an opportunity to gain increased clinical exposure during the clinical years of the course.

Another objective of the medical course, (as listed in this Handbook), is to develop in our undergraduate students attitudes and skills as well as the imparting of knowledge. These are necessary for you to function adequately as medical graduates and to fulfil your responsibilities to the changing needs of society. We hope to inculcate a critical but flexible approach to scientific thought so that you will be able to draw on information derived from a variety of sources, analyse it critically and apply your synthesis to the decision-making process. We are also concerned to stress your ethical responsibilities to the patient, to society and to the profession.

The Faculty assumes that students entering the course are able and willing to direct and accept responsibility for their own learning. It is, therefore, essential that you develop, as soon as possible, an appropriate study pattern. There is a great deal of factual knowledge to be acquired in the basic scientific disciplines which will form the infra-structure upon which you build your medical skills in the later years of the course. Knowledge will be presented to you partly in lectures, tutorials and demonstrations. There is also a major requirement for private study. Although the course will place considerable demands on your time and energy I am sure you will appreciate the need to develop interests outside your studies and, where possible, participate in student affairs within the Faculty and the University. Clearly there is a great deal more to a University education than attending lectures and passing examinations. It is, therefore, desirable that you participate in the corporate life of the University if you are to enjoy the full and diverse experience that distinguishes University graduates from those of other tertiary institutions. Students should also aim to read as widely as possible outside the confines of the medical curriculum. With this in mind, Faculty has prepared a Reading List and you are encouraged to read from this list during your years with the Faculty. This list is available from the Faculty Office.

This Handbook is available to all students in the medicine course and the combined Science and Medicine course and it is important that you read it and succeeding editions, and retain it for reference. Information about course content, assessment procedures and rules of progression for each year of the course is published in the Handbook and will not be made available to students in any other form. You are advised also to consult frequently the noticeboards in the various Schools and in the foyer of the Wallace Wurth Building, as well as the official noticeboards of the University.

Finally, may I wish you every success in the course and hope that you will enjoy your time with us. If you have any difficulties or any unanswered questions I hope that you will contact the Faculty Administration Office and other members of the Faculty for assistance.

W. E. Glover Dean Faculty of Medicine Medicine

.

Faculty of Medicine Calendar of Dates

Session 1	26 February to 12 April
Recess	13 April to 22 April
	23 April to 7 June
Midyear Recess	30 June to 22 July
Examinations: 14 June to 2 July	
Session 2	23 July to 21 September
Recess	22 September to 1 October
	2 October to 31 October

Examinations: 7 November to 23 November

Fourth Year

1990 First, Second and Third Years

Prince of Wales Hospital

Term 1 (6 weeks)	15 January to 25 February
Term 2 (6 weeks)	26 February to 8 April
Term 3 (6 weeks)	9 April to 20 May
Term 4 (6 weeks)	4 June to 15 July
Term 5 (6 weeks)	16 July to 26 August
Term 6 (6 weeks)	27 August to 7 October

St Vincent's Hospital

Term 1 (8 weeks)	15 January to 11 March
Term 2 (7 weeks)	12 March to 29 April
Term 3 (7 weeks)	14 May to 1 July
Term 4 (7 weeks)	2 July to 19 August
Term 5 (7 weeks)	27 August to 14 October

15

Medicine

Fourth Year

St George Hospital

Term 1 (10 weeks)		• •			 				•	 •	•	•	•	•	•	
Term 2 (9 weeks)					 				•		•		•			
Term 3 (9 weeks)			• •		 									•		
Term 4 (9 weeks)	••	• •			 	• •	•		•			•	•	•	•	

15 January to 25 March 2 April to 3 June 12 June to 12 August 20 August to 21 October

Fifth Year

Term 1 (8 weeks)	15 January to 11 March
Term 2 (8 weeks)	19 March to 13 May
Term 3 (8 weeks)	21 May to 15 July
Term 4 (8 weeks)	23 July to 16 September
Term 5 (8 weeks)	24 September to 18 November

Faculty Information

Some People Who Can Help You

If you require advice about enrolment, degree requirements, progression within courses or any other general Faculty matters contact one of the following people, located in the Faculty of Medicine Administration Building (map reference B28):

Gordon Rees, Administrative Officer, Faculty of Medicine. Telephone 697 2459.

Janet McLean, Administrative Assistant, Faculty of Medicine. Telephone 697 2457.

Moya Pedemont, Administrative Assistant, Faculty of Medicine. Telephone 697 2452.

Peter Cook, Executive Officer, Faculty of Medicine. Telephone 697 2450.

It is University Policy to promote equal opportunity in education (refer to EOE Policy Statement, University of New South Wales Calender and the Guide for Students 1990)

The Faculty

The Faculty of Medicine was established when the New South Wales Government accepted a proposal of the Murray Committee of Inquiry into the Future of Australian Universities and announced in December, 1957, that a second medical school in New South Wales would be established within the re-named University of New South Wales.

The Faculty's first students enrolled in 1961 and 25 of these graduated from the six year course in 1966. A five year undergraduate curriculum was introduced in 1974. Although this has been a highly successful curriculum to date, a number of changes in both the hospital and health systems indicated the need for the Faculty to extend the course to a six year curriculum in 1988.

The Faculty of Medicine consists of all members of the academic staff together with nominees from professional organizations, teaching hospitals and the student body. The Chairman is elected biennially from the Professors and Associate Professors of the Faculty.

The Dean is the principal channel of communication between the Faculty and the University on administrative matters. The Dean and the Faculty are supported by a number of committees (listed below), some of which perform administrative tasks, while many assist in maintaining a constant review of the curriculum and the objectives of medical education.

Schools in the Faculty of Medicine are Anatomy, Community Medicine, Medical Education, Medicine, Obstetrics and Gynaecology, Paediatrics, Pathology, Physiology and Pharmacology, Psychiatry and Surgery. The Faculty is supported in its operations by the Centres for Continuing Medical Education, Cardiovascular Research, Immunology, National Drug and Alcohol Research, Experimental Neurology and Public Health, as well as a Mass Spectrometry Unit, a Biomedical Electron Microscope Unit, a Medical Illustration Unit, a Carcinogenesis Research Unit and an NH and MRC Special Unit in Aids Epidemiology and Clinical Research. The Faculty is also affiliated with the Garvan Institute for Medical Research at St. Vincents Hospital, the Childrens Leukaemia and Cancer Research Unit at the Prince of Wales Hospital and the Skin and Cancer Foundation.

Important: As changes may be made to information provided in this handbook, students should frequently consult the noticeboards of the schools and the official noticeboards of the University.

Committee Structure

Faculty of Medicine

Executive Committee of Faculty Admissions and Re-enrolment Committee Assessment Committees **Biomedical** Library Advisory Committee **BMedSc Course Committee BSc MBBS Course Committee** Curriculum Committee and its various Sub-Committees Higher Degree Committee **Clinical Supervisors Committee** Dean's Advisory Committee Faculty Resources Allocation Advisory Committee Hospital Boards of Medical Studies UNSW Oncology Advisory Committee Faculty Professorial Meeting Commonwealth Postgraduate Awards Committee Faculty Academic Promotions Committee Faculty Research Advisory Committee Centre for Cardiovascular Research Advisory Committee Centre for Continuing Medical Education Management Committee Centre for Immunology Advisory Committee Centre for Experimental Neurology Advisory Committee NH and MRC Special Unit in Aids Epidemiology and Clinical Research Advisory Committee

Costs in Addition to Fees

Details of fees have been provided in the *Guide to Students* 1990 but in Medicine there are additional costs.

Students, when embarking on their degrees, may not be aware of the incidental costs which occur from time to time during the course: The following is an estimate, based on students' experience, of the expenditure which is likely to be incurred over the full length of the course. The amounts quoted are, of course, subject to some variation.

	\$ approx.
Textbooks	1500
Two coats (1 laboratory, 1 hospital)	60
Stethoscope	80-300
Opthalmoscope	180-250
Laboratory Manuals	150
Miscellaneous (papers, pens, kits, diagnostic	
equipment, laboratory manuals and aids, etc)	300

One long white coat is required for use in the Schools of Anatomy and Biochemistry and one short coat for use in the hospitals.

Attendance at and Residence in Hospitals

From Year 2 students attend hospitals and must wear short white coats while at the hospitals.

There are times in the later years of the course when students are either required or may elect to live in the hospitals for

periods ranging from one night to a term. Accommodation charges at the prevailing rate must be paid directly to the hospitals for all periods of residence.

Teaching Campuses

The Eastern Sydney Area Health Service

Principal Teaching Hospitals

Prince Henry Hospital,

Anzac Parade, Little Bay 2036 Telephone 661 0111

Prince of Wales Hospital,

High Street, Randwick 2031

Telephone 399 0111

The Hospital group, comprises 982 beds on three sites (Prince Henry 553, Prince of Wales Adult 393 and Eastern Suburbs 36).

All medical specialities other than Obstetrics are provided by the Hospital group. The group includes a service for the developmentally disabled and an extensive network of community health services in the Eastern Suburbs, which is co-ordinated through three health centres (Randwick, Maroubra and Botany). Facilities include radiotherapy, spinal injuries, bone marrow transplant, lithotripsy, AIDS Special Care Unit and a 30 bed Geriatric Assessment Unit. The senior medical staff members number over 400 and junior medical staff 320 (including 100 on secondment to other centres).

The Hospital group has a history dating back to the late 19th century and has been an integral part of medical education at The University of The New South Wales since 1959.

Limited student accommodation is available and other facilities include tennis courts, swimming pools and common rooms. A Medical Library is located at both Prince Henry and Prince of Wales Hospitals.

The Prince of Wales Children's Hospital

High Street, Randwick 2031

Telephone 399 4450 Facsimile 398 2136

This is a paediatric tertiary referral service serving the whole of the State. It comprises 165 beds and has close liaison with the Children's Department at the Prince Henry Hospital (35 beds). It also has close links through senior paediatric and registrar staff with other teaching and associated hospitals such as the Royal Hospital for Women, Liverpool Hospital, Wollongong Hospital, etc. It provides a complete range of paediatric services.

There is a care-by-parent unit and a Ronald McDonald House providing accommodation for parents and siblings and there is a residential unit of ten bedrooms for students.

The St Vincent's Hospital

Victoria Street, Darlinghurst 2010

Telephone 339 1111

The St Vincent's Hospital has been run by the Sisters of Charity since it was founded in 1857. It moved to its present site in 1870.

Students of medicine have attended the Hospital since 1891 and from 1923 to 1969 the Hospital was a Clinical School for the University of Sydney. Since then it has been a Principal Teaching Hospital of The University of New South Wales. The Clinical School and a student hostel were built in 1964. At present the Clinical School contains teaching facilities, audio-visual equipment, common rooms and library.

The St Vincent's Hospital has 510 available beds on a single campus. It is an acute general Hospital with highly development specialist units in most areas of medicine and surgery. Special services developed at the Hospital include cardiac transplantation, bone marrow transplantation, a comprehensive AIDS unit and a Cancer Centre. Extensive services are also provided for patients suffering from alcoholism, drug addiction and those who require palliative care and geriatric services.

Research is undertaken in the Garvan Institute of Medical Research and Professorial Departments, the Department of Clinical Pharmacology and the Anxiety Disorders Unit. The visiting medical staff numbers 103, the salaried staff 65 and the resident medical officers 148.

The Royal Hospital for Women

Oxford Street, Paddington 2021

Telephone 339 4111

The Royal Hospital for Women is the University's Teaching Hospital in obstetrics and gynaecology. It is a specialist Hospital for obstetrics and gynaecology and includes a department of neonatal paediatrics. The visiting medical staff numbers 102, and the salaried and resident medical staff 20.

The Hospital, of 181 available beds, functions under the auspices of the Benevolent Society of NSW, which established Australia's first lying-in hospital in 1820. The first medical undergraduate students came to this Hospital in 1888 and the present site was occupied in 1901.

The first baby clinic, the forerunner of today's Baby Health Centres, was established in 1906. The State's first Antenatal Clinic was started in 1912 and this was the third such clinic in the world. In 1931 the first Achheim Zondeck Pregnancy Test was performed in Australia at the Royal Hospital for Women, and Australia's first Cancer Detection Clinic was established in 1948.

Currently the Department of Ultrasound at this Hospital has an international reputation in research and development of this equipment for use in obstetrics.

Associated Teaching Hospitals

The Royal South Sydney Hospital

Joynton Avenue, Zetland 2017 Telephone 697 8200 The Royal South Sydney Hospital provides 118 beds for general medicine and surgery and has developed a new role as a major rehabilitation centre.

The Hospital is situated in a heavily industrialised area, serving a resident population of 77,000 and a daily influx of 75,000 workers. Management of casualties suffering from industrial injuries is one of the main features of the workload of the Casualty Department. It has recently accepted the role of establishing a Regional Rehabilitation Service for the Southern Metropolitan Region of the Department of Health and a super Regional Specialised Rehabilitation Service including rehabilitation engineering, to the State of New South Wales.

The honorary and visiting medical staff numbers 37, salaried specialists 3 and resident medical staff 13.

St Margaret's Hospital

435 Bourke Street, Darlinghurst 2010

Telephone 339 0466

St Margaret's Hospital commenced on 18 March 1894. The Hospital moved from its original site in Elizabeth and Cleveland Streets to its current site in 1911. In 1937 the Sisters of St Joseph were asked to accept responsibility for administering the Hospital. It was the first maternity hospital staffed and controlled by a religious order. It is a specialist Hospital in obstetrics and gynaecology and in 1964 was established as a teaching centre of the University of Sydney.

The present Hospital was built in 1951. The Hospital has 115 beds including 4 beds in the Special Care Nursery. It employs 110 salaried and visiting medical staff and 16 resident medical staff.

Sydney Hospital

Macquarie Street, Sydney 2000

Telephone 228 2111

Sydney Hospital, the first hospital in Australia, was established at Dawes Point shortly after the arrival of the First Fleet in 1788. It was transfered to the Sydney Hospital site in Macquarie Street in 1811 when Governor Macquarie built the 'Rum' Hospital. The first Nurses Training School in the Florence Nightingale tradition was established at the Hospital in 1868.

The Hospital, up until 1983/84, was a 496 bed full teaching Hospital of the University of Sydney, with all clinical specialties represented and research institutes of world renown.

Sydney Hospital (incorporating Sydney Eye Hospital) has 168 beds, and provides inpatient and outpatient services in general medicine, general surgery, urology, Intensive Care Unit, psychiatry, gynaecology, orthopaedics, casualty, ENT and hand surgery. These beds include 10 day-surgery beds at Sydney Hospital and 5 day-surgery beds at Sydney Eye Hospital. There are 80 visiting medical staff, 5 staff specialists and 40 resident medical officers (including Sydney Eye Hospital).

Located on the Sydney Hospital site is the Sydney STD Centre and an Occupational Health and Safety Centre. The Hospital also operates the Sydney Eye Hospital, Sydney AIDS Clinic (Albion Street Clinic) and Health Screening and Heart Health Programs.

The Hospital has a medical library of full teaching hospital standard and a medical staff common room but provides no

Medicine

accommodation. The campus is undergoing major refurbishment including construction of a new ward block. When completed, in 1990, the Hospital will have a total of 120 beds.

Sacred Heart Hospice

170 Darlinghurst Road, Darlinghurst 2010

Telephone 361 9444

The Hospice, established in 1890, is owned and governed by the Sisters of Charity of Australia. It provides a comprehensive palliative care service incorporating medical, nursing, pastoral, therapy, welfare and educational services. These services are available to in-patients and home-care patients and extend to the support of the patients' families. Respite care is provided.

Conducted by the Hospice are formal educational programmes for Hospice staff, staff from other facilities and tertiary students.

The present purpose-built Hospice was opened on 6 November 1988. It has 100 in-patient beds and four day-hospital beds.

The Southern Sydney Area Health Service

Principal Teaching Hospital

The St George Hospital

Belgrave Street, Kogarah 2217

Telephone 588 1111

The St George Hospital was founded in 1894. It has subsequently developed from a District Hospital into a Teaching Hospital; initially with the University of Sydney in 1963 and then as a Principal Teaching Hospital with the University of New South Wales from 1 January 1967.

The total number of beds is 515, which includes general medical and surgical accommodation, together with departments of orthopaedics, obstetrics and gynaecology, paediatrics, psychiatry, rehabilitation and geriatrics, plus a home for developmentally disabled children.

Visiting and staff specialists number 107 and resident medical staff 140. The Clinical School includes teaching facilities, audiovisual equipment and library. Accommodation is available for students.

Associated Teaching Hospitals

The Canterbury Hospital

Canterbury Road, Campsie 2194

Telephone 789 9111

The Canterbury Hospital, which was founded in 1928, has been an Associated Teaching Hospital of the University since 24 July 1963. It is a general medical, surgical and obstetric hospital of 166 approved beds and has a very busy accident and emergency department with over 30,000 attendances every year.

The Hospital is now part of the Southern Sydney Area Health

Service. The area served is basically the Municipality of Canterbury and its immediate surrounds, the services provided being that of a district general hospital. The population served is approximately 135,000, which is made up partially of several predominant ethnic groups. This influences the type and level of services delivered to some extent.

Visiting medical staff totals 62, affiliates in obstetrics 7, salaried 5 and resident medical staff 30.

The Sutherland Hospital (Caringbah)

The Kingsway, Caringbah 2229

Telephone 526 0311

The Sutherland Hospital (Caringbah) is a general medical, surgical and obstetric hospital. There is also a gazetted psychiatric unit and a 22 bed paediatric ward.

The Hospital has 385 beds. There is a well equipped library.

The Hospital is staffed by 100 visiting medical staff, 15 staff specialists and 40 resident medical staff.

The South Western Sydney Area Health Service

The South Western Sydney Area Health Service became a Principal Teaching Campus of The University of New South Wales in early 1989 and is currently advertising Foundation Chairs.

The South Western Sydney Area Health Service manages the hospitals and health services within the Bankstown, Campbelltown, Camden and Wollondilly Local Government Areas. The estimated population of the Area for 1991 is 643,500 people.

The Area is characterised by a predominantly young population, and includes a large number of non-English speaking communities. The population growth rate for the Area is approximately 20% per year.

The Fairfield, Liverpool, Bankstown, Camden, Campbelltown and Queen Victoria Memorial Hospitals service the area.

Principal Teaching Hospital

The Liverpool Hospital

Elizabeth Street, Liverpool 2170

Telephone 600 0555

The Liverpool Hospital provides some 450 beds in general medicine, general surgery, obstetrics and paediatrics.

Major developments are proposed for the Liverpool Campus including a referral centre of some 400 beds. The South Western Sydney Area Health Service is committed to the co-ordination of Community Health services and Hospital services in order to provide a comprehensive service to its population which is expected to grow to 1 million by the year 2010.

Associated Teaching Hospital

The Bankstown Hospital

Eldridge Road, Bankstown 2200

Telephone 790 0444

The Bankstown Hospital is a general, maternity and psychiatric hospital. The Hospital is situated in the City of Bankstown, in the Western Suburbs 22 km from the centre of Sydney. The Hospital was officially opened in 1957; since then, a constant program of growth and updating has kept the buildings modern. The latest addition is an intensive and coronary care unit, opened by the Premier in August 1980. The Hospital provides basic medical care of a high standard, primarily to the City of Bankstown which is a thriving community of about 170,000 people.

The Hospital has a total of 349 beds, which includes a 9-bed intensive care unit, 6-bed coronary care unit, 51-bed obstetrics unit, 26-bed paediatric unit with a neonatal paediatric intensive care nursery and a modern 40-bed psychiatric unit. It employs 105 salaried and visiting medical staff and 37 resident medical staff.

The Hospital provides patient care in the areas of medicine, surgery, obstetrics and gynaecology, psychiatry and paediatrics. It has one of the busiest casualty units in Sydney.

The Hospital is intimately involved in the development and coordination of community health services in the City of Bankstown. A 'Day Hospital is in operation as part of a hospital-based community health program.

The Illawarra Area Health Service

The Illawarra Area Health Service covers an area immediately to the south of the Sydney Metropolitan Area, and comprises the Local Government Areas of Wollongong, Shellharbour, Kiama and Shoalhaven. The area as a whole had an estimated resident population of 300,600 at June 1986, making up 5.26% of the population of New South Wales.

The area is diverse in character, has a coastal plain 242 kilometres in length and is bounded by an escarpment. The break between the coast and the tablelands is abrupt, with the escarpment providing a constraint to east-west movement. The coastal plain contains the highly urbanised and industrial areas of Wollongong and Port Kembla, which contrast strongly with the largely rural areas of the South Coast.

In August 1989 the Area Health Service signed an agreement with The University of New South Wales for the Health Service to become an Associated Teaching Campus of The University.

Associated Teaching Hospitals

The Wollongong Hospital

The Wollongong Hospital is the major referral Hospital for the Illawarra and South Coast.

The Hospital, which has 292 beds, provides accident and emergency, specialist medical and surgical, intensive care, major diagnostic services, psychiatry, obstetrics and paediatric services for patients referred from throughout the Illawarra. By 1993 the Clinical Services Building will be completed at a cost of \$58.8m. Improved diagnostic facilities and a Radiotherapy Unit are included in the development.

Sheilharbour Hospital

The Shellharbour Hospital, which has 124 beds, works in close co-operation with the Kiama Hospital in providing services to the surrounding district.

The Hospital provides accident and emergency, medical, surgical, psychiatric, obstetric and outpatient family and child health services.

Kiama District Hospital

The Hospital, which has 24 beds, provides primary and emergency care and medical services and acts as an observation facility for children.

Shoalhaven and District Memorial Hospital

Shoalhaven and District Memorial Hospital, which has 154 beds, is to be redeveloped as the major hospital for the Shoalhaven, providing accident and emergency, primary care, obstetrics, paediatrics, medical and surgical services.

Milton/Ulladulla Hospital

The Milton/Ulladulla Hospital is a 30 bed district hospital servicing the primary and emergency care needs of the southern sector of the Shoalhaven.

Port Kembia District Hospitai

The Port Kembla District Hospital, which has 175 beds, provides district level services for the surrounding suburbs, including primary and emergency services and medical and surgical services. It is also a specialist referral hospital in orthopaedics, acute rehabilitation and geriatric assessment for the Illawarra Region.

Bulli Hospital

The Bulli Hospital, which has 86 beds, is the community hospital for the northern suburbs of Wollongong, providing primary and emergency care, medical, surgical and postnatal services.

Coledale Hospital

The Coledale Hospital, which has 38 beds, is a Hospital specialising in geriatric care and rehabilitation.

The Biomedical Library

The Biomedical Library provides library services for staff and students from the Faculties of Medicine and Biological and Behavioural Sciences and from the Schools of Food Science and Technology, Health Administration, and Wool and Animal Science. It maintains close liaison with libraries of teaching hospitals of the University and the Garvan Institute of Medical Research.

The Biomedical Library is located on levels 2, 3 and 4 of the Mathews Building Annex and is connected to the other Special Libraries via a link through the undergraduate collection.

Professional staff are available at the Reader Assistance Unit

Medicine

on Level 2 to provide reference services and to assist in the use of the online catalogue. Instructional classes in the use of the library and in specific subject material can be arranged.

Computerized literature searches as well as assistance in the use of databases on CD-ROM are also available.

Instructional classes in the use of the Library and in specific subject material can be arranged through the Reader Assistance Unit.

Biomedical Librarian

Monica Davis

The University of New South Wales Medical Society

The University of New South Wales Medical Society (Medsoc) is the representative body of the medical students of the University. Its primary function is to provide amenities and social stimulation for its members in order to promote a pride in and a sense of belonging to the Faculty. It also has the function of initiating and maintaining communication between medical students and medical educators and administrators both within the University and outside. Membership is free and automatic to all medical students.

Among the social functions held annually are the first year welcome weekend various wine and cheese nights, harbour cruises, barbecues, hospital parties, the 'Med Ball' and the Anzac Day sports day. A newsletter and an annual magazine are produced to which students and staff are encouraged to submit written articles.

The Society maintains communication with all levels of Faculty through the President, Vice-President and Year representatives, while other Medsoc supported students hold positions in University government. These officers together with the Secretary, Treasurer, Shop Managers and other representatives, constitute the Society Executive which is elected annually.

The *Medsoc Shop* is an important service provided by the Society. Textbooks, white coats and diagnostic instruments may be bought cheaply. A Medsoc shop joining fee is payable. The shop is situated in Hut P at the Prince of Wales Hospital (telephone 399 2121). Hours of opening: Tues, Thurs 12-2pm, Wed 4-7pm.

All students are encouraged to participate in the Society's activities and to attend the Medsoc meetings which are held in the Bookshop monthly on Tuesdays of each month at 6:00 p.m.

All enquiries about the Society should be addressed to the Secretary of the Medical Society, c/- Medsoc Bookshop, Hut P, Prince of Wales Hospital, High Street, Randwick 2031.

Undergraduate Study

Selection into the Faculty of Medicine

Entry is competitive and applications are considered and assessed on academic merit. The annual intake is approximately 177 students. This includes students who were granted deferral of commencement, and eligible repeats from the previous year. There is no provision for 'mature age entry' to Medicine.

Preference is given to students who are resident in New South Wales and the majority are selected on the basis of the aggregate obtained in the best 10 units in approved subjects in the New South Wales Higher School Certificate. Those admitted usually rank within the top 3-4% of those who sat for the examination. School leavers from the Australian Capital Territory compete with local residents. The ACT Tertiary Entry Score is equated with the New South Wales HSC results to establish a ranking for selection into the medical course quota.

There is a small intake quota for applicants who have partially completed tertiary studies in New South Wales. Such applicants are assessed on the basis of their tertiary results in conjunction with their original matriculation results. Emphasis is placed upon the tertiary results. Again there is a small quota for applicants who have completed tertiary studies in New South Wales. Such applicants are assessed solely on the basis of their tertiary results. Competition is such that an outstanding level of academic achievement is required. Because of the integrated nature of the course it would be exceptional for admission to be granted to other than first year.

A penalty of 5% on the most recently obtained matriculation aggregate will be imposed on an applicant taking a matriculation examination for the third or subsequent time, or an applicant seeking entry on a matriculation result obtained after having been admitted to a tertiary institution and recorded a result.

Overseas and Interstate Qualifications

Applications will also be considered from those who have qualifications obtained interstate or overseas, provided they have permanent residency status and are bona fide residents of New South Wales or can provide evidence that they have an acceptable reason (such as family reunion) for coming to live in New South Wales. Such applicants are also normally required to provide evidence that their qualifications would have gained them admission to a medical course in the state or country in which the qualifications were obtained. Again, competition is such that an outstanding level of academic achievement is required. Because of the integrated nature of the course it would be exceptional for admission to be granted to other than the first year.

Overseas Students

The applicants from overseas may only compete for entry to the medical course as either full-fee paying students or as holders of an "Equity and Merit" Scholarship (EMSS) awarded by the Australian Government. Enquiries regarding "full-fee" places should be directed either to the Academic Registrar or the Executive Officer, Faculty of Medicine, both at The University of New South Wales, P.O. Box 1, Kensington, NSW 2033, Australia. Enquiries regarding EMS Scholarships should be directed to the local Australian Diplomatic Mission.

Prerequisite Requirements

The most suitable Higher School Certificate studies for those who wish to enter the Faculty would include 2 or more units of Mathematics, English and Chemistry. (The 2 Unit Mathematics subject, Mathematics in Society, is not suitable.)

To be eligible for selection into the Medicine Faculty, students must first obtain the required course prerequisite score in the HSC Mathematics. There are also first year subject prerequisites of HSC English and Chemistry. The following prerequisite requirements were current at the time of publication.

Course prerequisites

Mathematics: 2U(60-100) 3U(1-50) 4U(1-100)

Subject prerequisites

English: 2U(General)(53-100) 2U(49-100) 3U(1-50) Science: 2U(Chemistry)(67-100) 3U(90-150) 4U(1-50)

For applicants seeking selection solely on the basis of their aggregate HSC score and who have the necessary aggregate mark, but do not meet a subject prerequisite an offer may be made conditional upon the student deferring acceptance for one year and undertaking prescribed studies to meet the prerequisites. All other applicants must meet both course and subject prerequisites before any offer can be made.

Prospective students are advised that while it is not an exclusive requirement, they should include Physics as well as Chemistry in their HSC program as a knowledge of these disciplines is useful in the first years of the medical course. Students who have not included Physics in their HSC program are strongly advised to undertake the short 'bridging course' in Physics organised by the School of Physics at The University preferably before commencing enrolment in the medical course. There is also an assumed knowledge of basic organic chemistry. A knowledge of Biology is also desirable.

Admission of Aboriginal Students and Refugee Medical Practitioners

The Faculty may admit suitably qualified persons of Aboriginal descent outside any quota restrictions. A special scheme also exists for the admission of refugee medical practitioners. Further information regarding the Schemes may be obtained from the Faculty Office on (02) 697 2454.

Admission of Disadvantaged Students (ACCESS Scheme)

The Faculty may admit, within quota, a number of students of high academic potential whose education has been disadvantaged, over a two year period by circumstances beyond their control. Applicants must matriculate to the University and meet all Faculty course and subject prerequisites. Further information may be obtained from the Access Scheme Co-ordinator at the University on (02) 697 3087.

Application Procedures

Applications should be directed to the Universities and Colleges Admissions Centre, Locked Bag 500, Lidcome, 2141, Telephone 6463033. The closing date for application is generally 30 September of each year or up to the end of October on payment of a late fee.

General Education Requirement

The University requires that all undergraduate students undertake a structured program in General Education as an integral part of studies for their degree.

Among its objectives, the General Education program provides the opportunity for students to address some of the key questions they will face as individuals, citizens and professionals.

The program requires students to undertake studies in three areas:

A. An introduction in non-specialist terms to an understanding of the environments in which humans function.

B. An introduction to, and a critical reflection upon, the cultural bases of knowledge, belief, language, identity and purpose.

C. An introduction to the development, design and responsible management of the systems over which human beings exercise some influence and control.

The exact form of category C is still being decided and should be clearly defined in 1990. This could involve, however, a slight subsequent change to the structure of the later years of degree programs.

There are differing requirements for students commencing before and after 1988:

1. Students who commenced their undergraduate program before 1988.

Students must complete a program of General Education in accordance with the requirements in effect when they commenced their degree program. Students yet to complete their General Education requirement may select subjects from any of the three categories of the new program.

2. Students who commenced their undergraduate program in or after 1988.

Students must complete a program of subjects selected from each of three categories of study in accordance with the rules defined in the General Education Handbook and in sequences specified in the requirements for individual courses.

Further information may be obtained from the office of the Centre for Liberal and General Studies, Room G58. Morven Brown Building and the General Education Handbook.

3800 Medicine Course

5 year Undergraduate Course - MB BS 6 year Undergraduate Course - BSc(Med), MB BS

From 1974 to 1987 the Undergraduate Medical Course extended over 5 years of full-time study until, commencing with first year studies in 1988, the Faculty implemented a new six year curriculum. Both courses lead to the degrees of Bachelor of Medicine and Bachelor of Surgery (MB BS). This qualification was originally recognised in 1975 by the General Medical Council of the UK, and by the newly formed Australian Medical Council in 1985.

These degrees (which are in effect a single degree) may be awarded with Honours Class 1; Honours Class II, Division I; Honours Class II, Division II or at Pass level. The award of honours is determined on the basis of a student's performance throughout the 5 or 6 year course, using the weighted average mark for each year which is obtained by weighting the subjects according to hours of teaching.

On completion of the 3rd year of the six year course, students also qualify for the degree of Bachelor of Science (Medicine). Students would not ordinarily be awarded the BSc(Med) until the completion of the requirements for the award of the MB BS. However, students who have completed requirements for the award of the BSc(Med) and are leaving the Medicine Course 3800 (MB BS) (either through their own decision to withdraw or upon exclusion by the University) are eligible to be awarded the BSc(Med) degree at that stage.

Students who have achieved a high standard in their studies may undertake an additional one year program of supervised research leading to the award of the BMedSc (five year MB BS Course) or BSc (Med) with Honours (six year BSc(Med) MB BS Course). [For details see the course description for 3830].

Objectives of the Medicine Course

The objectives of the Medicine Course are:

1. To produce a graduate with a knowledge of medical and behavioural sciences sufficient to understand the scientific basis of medicine and to go forward with medicine as it develops further.

2. To provide a graduate with the flexibility of outlook and training necessary to progress to any field of endeavour in medicine or related disciplines.

3. To provide education in clinical methods and patient care in the main branches of medicine and surgery so that the graduate could undertake patient care under supervision at the level of an intern.

4. To help the graduate understand professional and ethical principles and to be at all times mindful of the individual's obligations to patients, colleagues and the community.

Supplementary Assessment

Details of assessment requirements are contained in the sections on particular years and subjects in the course. The following regulations relate to supplementary assessment regulations which apply to all years of the Medicine Course.

Subject examiners may, in the time between the sitting of the November/December assessments and the meeting of the Assessment Committee, require students to present themselves for further assessment to resolve any doubts as to a student's performance.

In Year 5, subject examiners may, in the time between the sitting of term assessments and the meeting of the Assessment Committee (normally Thursday of the term recess), require students to undertake further assessment. Students are warned that they may be required to undertake such additional assessment and should take this into account when making travel arrangements for the elective term.

Further assessment may be given to allow the Assessment Committee to resolve a doubt. (In Years 1 to 3 such assessment is usually undertaken in the second week of the following January.)

Further assessment may be given when students, through illness or some other acceptable circumstances, have been prevented from taking one or more of the assessments or have been disadvantaged during the assessment.

Further assessment will not be granted when the composite mark accurately reflects failure to achieve the required standard of knowledge and understanding of the subject.

Course Details

1990 sees the third intake into the six year curriculum. Thus, the following year descriptions relate to Years 1, 2 and 3 of the six year curriculum and Years 4 and 5 of the previous five year curriculum.

Year 1 (Six Year Curriculum)

This year is conducted in two academic sessions and consistsof four subjects plus two General Education electives, as shown in the table below. The table also indicates the subject weights for these subjects (see Rules of Progression).

		Hours per week	
		S1	S2
70.001	Anatomy 1	5	7
80.010	Introductory Clinical		
	and Behavioural Studies	3	5
73.001	Biology for Medical		
	Students	4	0
41.001	Biochemistry for		
	Medical Students	6	6
	General Education electives	4	4
		22	22

Assessment

Biology is only taught in Session 1 with a final assessment at the end of that session. The other three subjects extend over both sessions and incorporate a final assessment at the end of Session 2. Assessments also take place at the end of Session 1 but do not constitute a barrier to progression to Session 2. Students who do particulary poorly in the mid-year assessments will be interviewed by the Dean or Executive Officer and an appropriate member of the academic staff before proceeding. Such students may discontinue without failure at that time.

Students with poor performance in the Session 1 assessments and/or who suspect that they have performed poorly in the Session 2 assessments should contact the appropriate subject authority as soon as possible after the examination period.

Rules of Progression

Students who have passed all subjects in Year 1 may progress to Year 2. General Education subjects or their equivalent may be carried to Year 2.

Students repeating the year are required to enrol in all subjects in Year 1, except that students in this category are allowed to retain credit for any General Education subject(s) passed.

Student Photographs and Identification Badges

Each student is required to be photographed during the first session. These photographs are required for school and Faculty purposes and are also used to produce identification badges which must be worn in the hospitals.

Immunisation for Medical Students

During the course, the Faculty requires that all medical students be immunised against tuberculosis, hepatitis B and rubella. The Faculty, with the assistance of the Teaching Hospitals, arranges for students to have both the tuberculin test and the hepatitis B test. Students are required to organise with their General Practitioner, prior to the completion of fourth year, immunisation against rubella.

In addition to the tuberculin, hepatitis B and rubella tests, the Faculty strongly recommends immunisation against measles and mumps. Although medical students are not considered to be at a greater risk than any other member of the community, it is considered an important health care measure that they obtain immunisation against these illnesses.

If you have any reason to suspect that you are at risk of having, or have, an immune deficiency, you should seek the advice of an immunologist before receiving a live vaccine.

Allocation to Hospitals in Year 2

During Session 2, Year 1 students are asked to list their preferences regarding allocation to teaching hospitals. The allocation is made after the Year 1 examinations and student representatives are involved in the allocation procedure.

Year 1 Subject Descriptions

For further information regarding these subjects contact the subject authorities.

70.001 Anatomy 1

Objectives: to acquire sufficient knowledge of topographical, surface and radiological anatomy of the limbs, head, neck and back to form a basis for subsequent clinical studies; to understand how a knowledge of anatomy is applied in clinical practice; to know sufficient principles of embryology and tissue histology to be able to undertake successfully more detailed studies of embryology and histology in Year 2.

An introductory subject in human anatomy, embracing the disciplines of gross anatomy (topographical anatomy), histology, and embryology. Teaching hours include one 3-hour practical/tutorial class per week, with an additional 2-hour class per week in Session 2 only; together with 1-2 hours per week of lectures.

Gross anatomy of the musculoskeletal system; topographical and radiological anatomy of the upper and lower limbs, head and neck, and back; introduction to microscopy and cell science; morphological aspects of cell function; histology of basic tissues (epithelia, muscle, nerve and connective tissue); early embryology, from conception to the formation of germ layers and coelom.

Assessment: There is a mid-year assessment which contributes to the final assessment for the subject but does not constitute a barrier.

80.010 Introductory Clinical and Behavioural Studies

Objectives: to enable students to gain a better understanding of themselves and other people as a basis for their respect and considerate treatment of patients in the practice of medicine; to develop interviewing skills; to gain experience in and understanding of the group process; to investigate the role of doctors and medicine in the community; to provide an understanding of development from childhood through adolescence and adulthood to old age, and understand the problems of people from various age groups; to develop in the student an awareness of the different family, socio-economic and ethnic backgrounds of people in Australian society and of the relevance of these backgrounds to the physical and emotional states of their patients.

Students attend a three hour tutorial each week in Sessions 1 and 2 and a two hour lecture/demonstration in Session 2 only. The tutorials cover communication skills and group dynamics (taught by participatory exercises) and students take the initiative in preparing and presenting group projects. Session 2 lecture topics include: the meaning of health and illness; development throughout the life cycle (childhood, adolescence, adulthood and old age); the particular problems of disadvantaged cultural groups (such as Aborigines and recent migrants). The lectures are supported by relevant films and by community visits, activities and discussions within the tutorial groups.

Assessment: Two major assignments during the year and an examination at the end of Session 2. There is no mid-year assessment.

73.001 Biology for Medical Students

Objectives: to provide an understanding of basic biological principles for the continuing study of human biology and medicine.

An introductory course consisting mainly of lectures which will be complemented by practical classes and excursions. Topics include: basic cell biology and introductory genetics; classification and diversity of invertebrates and vertebrates, leading to an understanding of man's relation to other animals; an introduction to parasites and their biology; principles of ecology and evolution; introduction to comparative physiology. Assessment: Assessment is based on an examination at the end of Session 1; assessment of practical class books, and one written assignment.

41.001 Biochemistry for Medical Students

Objectives: to obtain sufficient understanding of chemistry and biochemistry to recognize the essentially molecular basis of all living systems; to acquire a knowledge of chemistry and biochemistry essential for the study of physiology and pharmacology; to gain experience in laboratory skills and the use of the scientific method; to understand the structure, function and biosynthesis of the macromolecules that are indispensable to life; to gain insight into the ways in which the body uses metabolic fuels and the regulation of these metabolic processes so that growth and homeostasis are maintained; to understand the basis of practical biochemistry, including those procedures that are relevant to clinical diagnosis.

Classification of matter and theories of the structure of matter. Chemical bonding, molecular structure and chemical behaviour. Equilibrium and change in chemical systems. Introduction to colloidal systems. Structure and reactions of organic compounds relevant to biological systems.

Introduction to the biochemistry of macromolecules. Bioenergetics and enzyme catalysis. A survey of the principal metabolic pathways, their functions, interrelationships, and regulation. Introductory endocrinology and whole body metabolism.

Assessment: In addition to both a mid and end of year examination, there is continuous assessment through out the year.

Year 2 (Six Year Curriculum)

This year is conducted in two academic sessions. Teaching in the subjects Anatomy 2, Medical Biochemistry and Genetics, and Physiology is integrated and aims to give students a broad knowledge and understanding of human structure and function based on scientific principles, relevant to further study in medicine. In Clinical Studies 2, students make contact with patients and the physical aspects of disease, in order that they may apply their knowledge and understanding to the clinical situation. The strand dealing with human behaviour is continued.

		Hours per week	
		S 1	S2
41.002	Medical Biochemistry and Genetics	4.5	4.5
70.002	Anatomy 2	7	7
73.003	Medical Physiology 1	8	8
80.012	Clinical Studies 2	2	2
80.212	Human Behaviour	33	3
		24.5	24.5

Medicine

Assessment

Major assessments take place in the November/December assessment period but progressive assessments may take place throughout the year. Details of progressive assessments are provided by the appropriate subject authority.

Rules of Progression

A student enrolled in the second year of the Medicine Course who fails in any subject of that year, other than General Education subjects, shall be required to repeat the year, provided there is no conflict with the rules for re-enrolment. (A subject is one carrying a distinctive subject number.)

Year 2 Subject Descriptions

For further information regarding these subjects contact the subject authorities.

41.002 Medical Biochemistry and Genetics

Objectives: To acquire knowledge of biochemical aspects of the functions and control mechanisms of the major body systems in humans; to understand the regulation of the adaptive responses of body function to different forms of stress; to understand those biochemical processes which are of particular relevance to clinical practice and a study of pharmacology; to gain experience in problem-solving approaches to the biochemical aspects of normal and disease states; to introduce students to those aspects of modern molecular biology relevant to humans: to provide a basis for the study of human genetics.

Lectures, audio-visual and clinical demonstrations deal with endocrine systems, lipid metabolism, connective tissue, neurochemistry; purine, pyrimidine and nucleic and metabolism recombinant DNA procedures, gene probes, pedigree analysis, inborn errors of metabolism, X- and Ylinked inheritance, human cytogenetics. Clinical material illustrates the principles being studied and underlines the relevance of the course to the study of medicine.

72.002 Anatomy 2

Objectives: To gain knowledge and understanding of the gross and microscopical structure of the internal organs the brain; to be able to correlate embryonic development with the structure of normal and malformed organs and tissues and with the establishment of the anatomical relationships in the body; to correlate function and structure in the organ systems; to acquire basic understanding of the clinical relevance of the anatomical structures studied.

Instruction is organised according to the organ systems and includes the cardiovascular, respiratory, alimentary, urinary, genital, endocrine, lymphatic and nervous systems. In all instances the clinical relevance of the anatomical structures is emphasised. Separate lectures and tutorials are held in gross anatomy (dissecting room) and in histology and embryology. Neuroanatomy is a distinct subcourse in the second session and gives a description of the organisation and function of the brain and spinal cord with particular reference being made to the sensory and motor systems.

Assessment: Apart from continuous assessment tests and practical examinations there are separate examination papers for Histology and Embryology (S2), Visceral Anatomy (SI) and

Neuroanatomy (S2). At the end of both sessions there is a viva voce examination in Histology and Embryology.

73.003 Medical Physiology 1

Objectives: To gain knowledge and understanding of the function of the cellular elements of the body and the function of the major body organ systems in humans, to gain experience in the use of medical instrumentation and in the measurement of variables in mammalian biological systems; to gain experience in problem-solving approaches in the study of the physiology of the normal person; to integrate knowledge of anatomy, biochemistry and physiology to provide an understanding of human structure and function.

Systematic lectures, tutorials, practicals and demonstrations deal with excitable tissues, blood, circulation, respiration, kidney and body fluids, gastro-intestinal tract and metabolism. Attention is paid to the principles of physics necessary to understand the functioning of cells and organ systems. Clinical material illustrates the relevance of the course to the study of medicine.

Assessment: Examinations are held mid-year and at the end of the year and include both lecture and practical content.

80.012 Clinical Studies 2

Objectives: To extend knowledge and understanding of normal structure and function by demonstrating the disturbances which occur in disease; to demonstrate how symptoms and signs can be interpreted as disorders of structure and function and how this knowledge aids in the process of diagnosis; to provide an introduction to clinical medicine and medical terminology.

Closely integrated with Anatomy, Physiology and Biochemistry, illustrating the application of basic medical science to the clinical situation. Students are introduced to clinical medicine in the principal teaching hospitals and learn to understand the structure and function underlying certain clinical problems. Students begin to learn how to take medical histories, perform physical examinations, detect abnormalities and communicate with patients so that they can assess patients clinically and as individuals within society.

80.212 Human Behaviour

Objectives: To provide students with information concerning the determinants of human behaviour and demonstrate the relevance of this information to medical practice; to provide students with an understanding of the interactive nature of the genetic and environmental determinants of human behaviour; to produce a student with sufficient knowledge of research methodology to critically evaluate data.

Taught in both sessions. Instruction is given in first session in the research techniques, theoretical concepts and basic findings of the behavioural sciences, especially as these relate to medicine. Special emphasis is placed on the development of skills for the critical evaluation of scientific data concerning human behaviour and the oral and written expression of such evaluations. In second session critical attention is given to ethical and social issues as they arise in medical practice.

Topics include: scientific methods in the behavioural sciences; psychological and medical models; biological substrates of behaviour; the relevance of psychological functions to doctor-patient perception, compliance, pain perception and behaviour modification; the psychology and physiology of stress; relationship of stress to physical and psychological disorders; applications in behavioural medicine, sexuality, dying and death.

Year 3 (Six Year Curriculum)

Year 3 is conducted in two academic sessions. The principal subjects of the year are Medical Pharmacology, Medical Physiology, Microbiology for Medical Students and Pathology. Clinical Studies 3 continues the clinical program commenced in first year. Students also take the subject Medical Ethics (Historical Development), which builds on material presented in first year ICBS and second year Human Behaviour.

An understanding of Immunology is also required to enable students to deal with pathogenesis of specific diseases. To facilitate this understanding, a series of introductory lectures in Immunology provide an outline of the structure and function of the immune system - covering the cells and mediators involved in the immune response. The Immunology program is integrated with the Microbiology course on the response to infectious diseases, and with the Pathology course and is presented in an interdisciplinary fashion, providing a basis for subsequent instruction in the diagnostic and therapeutic aspects of clinical immunology in the later years of the curriculum.

Hours per Week

		S1	S2
44.211	Microbiology for Medical Student	ts 4	4
72.211	Pathology	5	5
73.004	Medical Physiology 2	4	4
73.211	Medical Pharmacology	5	5
80.004	Medical Ethics		
	(Historical Development)	1.5	-
80.013	Clinical Studies 3	4	4
		23.5	22

Assessment

In addition to the end of year assessment, mid-year progress assessments are programmed in some subjects.

Rules of Progression

A student enrolled in Year 3 of the Medicine Course who fails in any subject of that year shall be required to repeat the year provided that the rules for restriction upon students re-enrolling are not infringed by doing so.

Year 3 Subject Descriptions

For further information regarding these subjects contact the subject authorities.

44.211 Microbiology for Medical Students

Objectives: The overall objective is for students to understand the fundamental nature of the interactions between parasites and their human hosts. In order to achieve this, students will be required to know the causative agents of common microbial diseases and how they produce their effects, comprehend host defence processes, understand the epidemiology of infectious diseases, understand the basis of prevention and treatment of microbial diseases, appreciate the role of the microbiologist in the diagnosis and management of microbial diseases and where appropriate, integrate these objectives with a knowledge of pathology and immunology.

Early lectures and tutorials are concerned with the basics of the scientific discipline of microbiology by consideration of the structure, growth, physiological activity and genetic characteristics of bacteria, viruses, fungi and protozoa. Consideration is given to the nature of their responses to various physical, chemical and antibiotic agents which can be used to interrupt their normal function. An analytical approach is taken to the means by which these microorganisms exist in association with humans and their environment and how they gain access to tissues and produce disease. Attention is given to the mechanisms of host defence against microbial infection. Emphasis throughout the course is placed on diseases of body systems. Laboratory based classes emphasise the role of the laboratory in diagnosis and include the use of problem solving approaches to the study of microbial diseases.

Assessment: This is based on midyear and final examinations as well as a component of continuous assessment by designated assignments.

72.211 Pathology

The discipline of Pathology forms a continuous stream of teaching of the pathogenesis of disease throughout the 3rd, 4th and 5th years of the Medical curriculum. In Year 3, the subject 72.211 comprises an introduction to the basic disease processes (General Pathology), ie. those fundamental processes which are common to all tissues and organs of the body. The course covers classification of disease, and deals with both congenital and acquired diseases. The program comprises lectures, tutorials, practical classes and demonstrations on responses of cells to injury, inflammation, aberrations of the blood and vascular system and specific related effects of embolism and infarction, as well as studies of normal and abnormal growth, and of healing and regenerative processes. In addition, it includes consideration of the basic processes of neoplasia and carcinogenesis, as well as an introduction to the pathobiology of such contemporary health problems as environmental toxicology, ageing and drug abuse. In order to integrate the teaching of pathology with clinical studies, each fundamental process will be exemplified by references to examples of diseases of organ systems (Systemic Pathology) of practical importance.

The principles of immunopathology will be provided in an integrated program provided jointly by staff of Microbiology, Pathology and Medicine.

Assessment: Proficiency in the subject, sufficient to proceed to Year 4, will be assessed by midyear and final examinations which will comprise 20% and 80% respectively of the total mark in Pathology. Both assessments will comprise theory and practical components. The midyear assessment will also include a small percentage of marks acquired in progressive assessments.

73.004 Medical Physiology 2

Objectives: To extend knowledge of normal physiology to areas not covered in Medical Physiology I, particularly the nervous and endocrine systems and reproduction; problem solving approaches are emphasised and students are encouraged to integrate their knowledge of anatomy, biochemistry and physiology to provide an understanding of normal human structure and function. Those principles of biophysics necessary for an understanding of the course are discussed. In addition, the course places emphasis on applied physiology, including the physiology of exercise and particularly on clinical physiology, where basic physiological principles are applied to the understanding of selected clinical disorders.

Teaching involves systematic lectures, tutorials, practical classes and demonstrations.

Assessment: Examinations are held both midyear and at the end of the year and cover both lecture and practical content.

73.211 Medical Pharmacology

Objectives: To understand the mechanism of drug action with special reference to drugs of clinical importance; to be aware of the principles of drug interaction.

Medical pharmacology is the science of drugs or chemicals used to prevent, diagnose and heal disease, as well as the role of chemicals in the environment that cause disease. The medical pharmacology course is concerned with basic principles of drug action, including mechanisms of drug action, toxicology and drugs of clinical importance. Principles of drug action in animals and humans are examined.

Assessment: Examinations are held midyear and at the end of the year and include both lecture and practical content.

80.004 Medical Ethics (Historical Development)

This subject builds on the material relating to medical ethics presented in the first year Introductory Clinical and Behavioural Studies and second year Human Behaviour subjects, to give students additional preparation for the clinically-based discussion of ethical issues in years four to six. The lectures will use episodes from the history of medicine to focus on ethical questions pertinent to contemporary medical practice.

The subject is not intended to promote an ethical 'doctrine' but to allow students to become more aware of the bases for their own ethical judgements and those of others both within and outside the medical profession. In moving from the historical dimensions of an ethical problem to its contemporary setting, students become better able to distinguish between the universal ethical concerns associated with medicine throughout its historical development and the particular responses which have been made to those concerns in different social and cultural contexts. In addition, the historical approach to medical ethics has the value of further acquainting medical students with the cultural traditions of their own profession.

80.013 Clinical Studies 3

Clinical Studies 3 forms an important component of the continuum of clinical studies. It is preceded by a basic introduction to concepts in Year 2 (Clinical Studies 2) and

leads sequentially into Integrated Clinical Studies in Year 4.

Objectives: In the course of studies in Clinical Studies 3, which comprises lectures, tutorials, demonstrations and close patient contact, students are expected to acquire and practice the skills of history taking and physical examination in order to elicit the features of presentation of common diseases. Interpretation of the mechanisms of production of the presenting signs and symptoms requires the integration of clinical skills with basic (anatomical and physiological) sciences introduced in Year 2, as well as integration with parallel studies of Paraclinical Science, Pathology and Microbiology. Students are expected to develop and manifest empathy with their patients and although knowledge of diagnostic and therapeutic procedures is not required by the end of Year 3, nevertheless it is anticipated that general interest in the well being of patients will stimulate student to take increasing interest in these areas of clinical skills in preparation for more advanced studies in Year 4.

Assessment: Ability to take and record patients' history and perform a limited physical examination will be progressively assessed throughout the year by individual tutors who will record each successful milestone achieved in a log book. Six histories will be submitted by each student in the latter part of the year which will be formally assessed by tutors.

A written examination will be held at the end of Year 3 comprising short answer questions based on lecture material pertaining to mechanisms underlying clinical signs and symptoms.

Year 4 (Five Year Curriculum)

Year 4 of the course is based in the teaching hospitals and comprises four terms totalling thirty-eight weeks. Each main teaching hospital is responsible for the implementation of its own program through a hospital committee appointed by the respective Boards of Medical Studies.

Year 4 consists of one subject taught over a number of terms.

Rules of Progression

Students are required to pass each of the four separate segments of the assessment, namely: a pass in the written papers combined, a pass in the long case examination and a pass in each of the short case examinations.

Students should note that if they fail Year 4 in 1990 they will be required to enrol in all subjects in Year 4 of the six year curriculum in 1991. (Such students will retain credit for any General Education subjects passed in the five year curriculum.)

Students who have not completed the General Education components of the Medicine Course and who otherwise are eligible to progress to Year 5 are not allowed to progress until they have satisfied such requirements.
Preparation for Year 5

Students who progress to Year 5 are placed in one of four groups for the rotating terms and Elective attachments. During Year 4 students are asked to arrange themselves into four provisional groups. Further details are issued by the Faculty Office during the year.

Arrangements for Elective attachments in Year 5 must be made by the students themselves. Many students may wish to commence these arrangements while in Year 4, especially those wishing to undertake attachments overseas. Information concerning acceptable proposals may be obtained from the Faculty Office. See also the section for Year 5, Assessment and Rules of Progression, for information on restrictions applying to the Elective Term.

Year 4 Subject Description

80.400 integrated Clinical Studies

Objectives: to achieve a high level of competence in communication skills, history-taking and physical examination; to be able to list a patient's physical, emotional and socio-economic problems; to interpret symptoms and signs in terms of disorders of structure and function; to understand the pathological processes which result in symptoms and signs; to know the relevant special investigations and how to interpret the results to establish a diagnosis; to formulate a course of management based on a knowledge of clinical pharmacology and appropriate surgical intervention; to understand the pathol to course appropriately; to understand the importance of rehabilitation to enable patients to regain their place in the community.

The general aspects of clinical care, aiming to provide students with experience in the medical and surgical wards and in community practice where they participate in clinical attachments. Systematic pathology is also offered and, where possible, it is integrated with clinical studies. In the fields of general medicine and general surgery and the associated clinical specialities, emphasis is on total patient care incorporating aspects of continuing care in the community and in community practice.

In the presentation of interdisciplinary seminars, the Schools of Medicine, Surgery and Pathology receive assistance from all other appropriate schools.

Assessment: May comprise one multiple choice paper with 140 questions relating to medicine, surgery, pathology, clinical pharmacology and community medicine; one short answer paper of fourteen questions from the above areas in similar proportion to the multiple choice question paper; clinical assessments which usually consist of one 'long case' in October and two 'short case' assessments in November. Full details are issued during the year.

Year 5 (Five Year Curriculum)

Year 5 is comprised of five terms, each of eight weeks. In Terms 5.1 to 5.4 students rotate through blocks of teaching in obstetrics and gynaecology, paediatrics, psychiatry, geriatrics, general practice and emergency, rather than studying the subjects

concomitantly. For this purpose students are allocated to a particular group – Group A, B,C or D – and follow the program of that group for the first four terms. Work is assessed during or towards the end of each term.

Term 5.5 is usually an Elective term but may be a prescribed program in the case of a student who has failed to satisfy the examiners in one of Terms 5.1 to 5.4.

All students in Year 5 are enrolled in subject 80.105 Final Clinical Examinations (Terminal Assessment) and are required to sit for an examination at the conclusion of Term 5.5 unless exempted on results obtained during Year 5 and on overall performance in the Medicine Course.

The subjects studied in Year 5 are:

- 75.101 Obstetrics and Gynaecology
- 76.101 Paediatrics
- 77.101 Psychiatry
- 80.105 Final Clinical Examinations

80.500 Elective

80.501 Geriatrics/General Practice/Emergency

Sequence of Blocks

Group	Α	В	С	D
Term 5.1 (8 weeks)	Geriatrics/ General Practice/ Emergency	Paediatrics	Psychiatry	Obstetrics & Gynaecology
Term 5.2 (8 weeks)	Paediatrics	Psychiatry	Obstetrics & Gynae- cology	Geriatrics/ General Practice/ Emergency
Term 5.3 (8 weeks)	Psychiatry	Obstetrics & Gynaecology	Geriatrics/ General Practice/ Emergency	Paediatrics
Term 5.4 (8 weeks)	Obstetrics & Gynaecology	Geriatrics/ General Practice/ Emergency	Paediatrics	Psychiatry
Term 5.5 (8 weeks)	Elective	Elective	Elective	Elective

Assessment and Rules of Progression

The work of each rotating block is assessed during or towards the end of the block. Information concerning assessment in the Geriatrics/General Practice/Emergency block may be obtained from the Faculty Office.

Students who fail in any one of these assessments are required to repeat the subject in term 5.5, thereby foregoing the right to undertake an elective term. Students are required to obtain a satisfactory level of competence in the work of the repeat term. Students who fail more than one block are required to repeat the year.

Students who have obtained a credit level of performance in the clinical component of the 80.400 Integrated Clinical Studies assessments in Year 4 and who satisfy the assessors in each block from 5.1 to 5.4 are required to arrange a personal program of work for term 5.5 in any department or school within the Faculty, at any hospital or medical institution elsewhere, or with any medical practitioner, provided that details of the elective term are submitted in writing and approved by the Dean by the end of June.

Students who have not obtained a credit level of performance in the clinical component of the 80.400 Integrated Clinical Studies assessments must undertake an elective program in an approved area of Medicine and/or Surgery, and must submit details of the term in writing for approval by the Dean by the end of June. Details of the types of attachments which are approved are available from the Faculty Office.

For information about terminal assessment provisions affecting term 5.5 see below under the heading Remedial Term 5.5 and Final Clinical Examinations.

Before the commencement of Term 5.5 the Assessment Committee will review the performance of each student over the five years of the Medicine Course to ensure that the student prior to graduation has reached an acceptable level of competence. As a result of this review, and subject to a satisfactory assessment in the Elective Term, the Committee may exempt certain students from the requirement to undertake a terminal assessment at the end of Term 5.5.

Terminal Assessment

The following students are required to undertake the terminal assessment:

1. students who were given further assessment in the clinical component, 80.400 Integrated Clinical Studies;

2. students repeating the fifth year;

3. students who fail any one term during the fifth year;

4. students whose marks fall within the range 50-54 in 80.400 Integrated Clinical Studies in the Year 4 assessment and also in one rotating term in Year 5;

5. students whose marks fall within the range 50-54 in any two of the four rotating terms;

6. students granted leave at the end of Year 4 (other than students undertaking the Bachelor of Medical Science course at the end of this year - see BMedSc degree course outline) or who discontinue without failure in Year 5.

Students whose marks fall within the range 50-54 in 80.400 Integrated Clinical Studies in the Year 4 assessment will be considered for the terminal assessment. Such students may be exempted if they obtain a mark of 55 or more in each of the rotating terms.

Students who have obtained a mark of 55 or more in 80.400 Integrated Clinical Studies in the Year 4 assessment and whose marks fall within the range 50-54 in any one term in Year 5, but who are not required to repeat the term, will also be considered for the terminal assessment. Such students may be exempted subject to satisfactory performance in other subjects during the year.

The unofficial results for students in this category are released as 'PS: under consideration for the terminal assessment'.

Remedial Term 5.5 and Final Clinical Examinations

Students who are under consideration for the Terminal Assessment are required to undertake the Elective Term 5.5 in Medicine and Surgery under supervision in a hospital approved by the Schools of Medicine and Surgery, unless already required to repeat a term by virtue of having failed a term in Year 5. Any prior approval for an Elective Term will be withdrawn if a student is placed under consideration for the terminal assessment or is required to complete a remedial term.

Eligibility for Elective Term 5.5

Students who have satisfied the Assessment Committee at the end of each block from Term 5.1 to 5.4 and who are not to undertake the terminal assessment (80.105 Final Clinical Examinations), are required to arrange a personal elective program of work for Term 5.5.

The following are not eligible to undertake the Elective Term:

1. Any student who has failed a term in Year 5.

2. Any student who was awarded supplementary clinical assessment in 80.400 Integrated Clinical Studies.

3. Any student who is under consideration for the terminal assessment. (Students are notified at the end of each term if they are at that stage under consideration for the terminal assessment.)

4. All students who are required to undertake the terminal assessment.

The Dean's approval of the program must be obtained by the end of June. A proposal to undertake an Elective term overseas or interstate will not be approved after this time.

Year 5 Subject Descriptions

75.101 Obstetrics and Gynaecology

Objectives: To be able to take a history and perform a physical examination relevant to the female reproductive system; to recognize common disorders of the female reproductive system; to manage common medical gynaecological disorders likely to be primary care practice; to provide antenatal and postnatal care for a normal woman and to recognize deviations from normal; to be able to provide emergency care when indicated and to know the indications for referral.

A program of lectures in core subjects, clinical, physiological and pathological conferences and simulated patient management problem exercises. Students are taught in small tutorial groups. Supervized clinical experience is gained in outpatient clinics, in-patient services and the labour wards of The Royal Hospital for Women, St. George, Bankstown, St. Margarets, Sutherland and other selected hospitals. Neonatal paediatric experience is integrated with the teaching of Obstetrics and Gynaecology. Full details are described in a booklet published by the school.

Assessment: Continuing evaluation of clinical work and in week eight, a final oral and written examination.

76.101 Paediatrics

Objectives: To understand the physical, emotional and intellectual development of normal children; to recognize the interactions between the child, the family and the community; to recognize when a child is acutely ill; to know how to provide acute primary care for a sick child; to recognize major medical problems in the newborn infants; to understand primary and secondary prevention.

The program in general paediatrics and paediatric surgery is taught at the Prince of Wales Children's Hospital and some associated hospitals. The main emphasis is on clinical clerking and this is supported by ward rounds, case conferences, discussion groups, seminars and lectures. Students are expected to spend one night in four in residence, and one or two weekends per term. Teaching in neonatal paediatrics is integrated with the teaching of obstetrics and gynaecology.

Assessment: A multiple choice question paper, a short answer paper and a clinical examination.

77.101 Psychiatry

Objectives: To be aware of the key symptoms, signs and syndromes of psychiatric disorder; to be able to take a psychiatric history and conduct a mental state examination; to have acquired those skills necessary for a doctor in general or non-psychiatric specialized practice to decide appropriate management strategies; to be aware of, and have some experience in basic counselling skills; to be able to assess a patient's personality, psychological adjustment, coping repertoires, social function; to appreciate the importance of psychological factors in the diagnosis and treatment of illness; to be trained in interpersonal skills appropriate to clinical practice in any area of medicine; to be aware of the appropriate sections of the Mental Health Act; to have received basic knowledge in special areas of mental retardation, forensic psychiatry, child psychiatry, transcultural psychiatry and psychogeriatrics; to be competent in prescribing psychotrophic medications; and to be able to use simple behavioural techniques such as relaxation training.

Formal teaching seminars are held in the mornings of the first seven weeks. The afternoons are spent at Prince Henry, Prince of Wales, St. George, St. Vincent's and Sutherland Hospitals, where small group tutorials, case conferences and video analyses are carried out with academic and clinical staff, and clinical experience is obtained. Attachments to liaison psychiatry teams are organized so that students receive the appropriate teaching of skills related to general hospital patients. Visits to appropriate community facilities are organized.

Assessment: A written examination is conducted on the first day of the eighth week, and viva voce examinations are carried out on the remaining mornings of the week. A liaison psychiatry report is also part of the assessment.

80.105 Final Clinical Examinations (Terminal Assessment)

All students in Year 5 are enrolled in the subject 80.105 Final Clinical Examinations. In addition to those students automatically required to sit for the terminal assessment, all other students will be considered by the Assessment Committee for a final assessment and their performance throughout the course may be taken into account. Normally a student who has obtained a mark of 55 or more in the Year 4 assessment and in each of the rotating terms of Year 5 is exempted from this assessment. A student may be required to undertake the terminal assessment or other form of assessment if the Term 5.5 Year 5 Assessment Committee considers that the report by the supervisor(s) in the Elective Term is unsatisfactory.

Students who have obtained a mark of 55 or more in 80.400 Integrated Clinical Studies in the Year 4 assessment and whose marks fall within the range 50-54 in any one term in Year 5, but who are not required to repeat the term, will also be considered for the terminal assessment. Such students may be exempted subject to satisfactory performance in other subjects during the year.

The unofficial results for students in this category are released as 'PS: under consideration for the terminal assessment'.

Projected Format and Content of the Terminal Assessment

1. There may be three assessments comprising one 30 minute short case clinical viva, one long case assessment consisting of one hour with a patient followed by 30 minutes with the assessors, and one 30 minute oral assessment.

2. Each student is assessed by two assessors at each assessment. The assessing team is integrated, comprising members of the Schools of Community Medicine, Paediatrics, Psychiatry, Obstetrics and Gynaecology and Medicine and Surgery.

3. The 'long case' assessment is in an area of demonstrated weakness. At least one member of that assessing team will be concerned with the relevant subject.

4. A student may be assessed in Medicine and Surgery and any of the areas taught in Year 5.

Remedial Term 5.5 and Final Clinical Examinations

Students who are under consideration for the Terminal Assessment are required to undertake the Elective Term 5.5 in Medicine and Surgery under supervision in a hospital approved by the Schools of Medicine and Surgery, unless already required to repeat a term by virtue of having failed a term in Year 5. Any prior approval for an Elective Term will be withdrawn if a student is placed under consideration for the terminal assessment or is required to complete a remedial term.

80.500 Final Year Elective Term 5.5

Objectives: These include one or more of the following: to develop basic knowledge and skills in Medicine and/or Surgery; to acquire preliminary training for a career in a specialty of medicine; to experience a different pattern of health care delivery from that practised in Australia; to obtain experience which may influence subsequent career orientation; to correct deficiencies perceived by students in their undergraduate program; to obtain a short introduction to research methods and philosophy.

All students undertaking the Elective Term must do so in an approved area of Medicine or Surgery or both, except for those who have attained a credit level of performance in the clinical component of the 80.400 Integrated Clinical Studies assessments. Information about attachments approved by the Schools of Medicine and Surgery is available from the Faculty Office.

Students who have attained a credit level of performance in the clinical component of the 80.400 Integrated Clinical Studies assessments may undertake work in one of the following areas (proposals which include work in more than one area are unlikely to be approved): in any school or department within the Faculty of Medicine; in a hospital or medical institution either in Australia or in another country; with a medical practitioner either in Australia or in another country.

Students should make individual arrangements for electives and are advised that some overseas governments, health authorities and/or hospitals require very early applications, accompanied by certification that the applicant is an enrolled medical student of the University who is eligible to undertake the specified term. When making the arrangements, students should specifically request that an appropriate person is willing to act as a supervisor. The supervisor is asked to submit a report to the Dean's Office by the end of the third week in November. Students who gain more than one acceptance for the elective term should communicate their refusals as soon as possible.

Students are encouraged to consult the files containing past student Elective reports, available in the School of Community Medicine. Students are also encouraged to discuss their Elective proposal(s) with a member of staff, perhaps their Warden of Clinical Studies.

Assessment of the Elective Term

Each student is required to produce a report which describes the nature of the work done during the Elective Term. This should be approximately 1000 words in length. The reports from the student and the supervisor must be submitted to the Faculty Office no later than the end of the sixth week of term. The reports are forwarded to the Heads of the relevant Schools for a decision as to whether the student has completed a satisfactory term, and thence to the Assessment Committee. It is the student's responsibility to ensure that both reports (including the supervisor's report) are received by the due date and in time for consideration by the Assessment Committee as late arrival may prejudice the allocation of an internship.

In general, students undertaking elective terms approved by the Dean are covered in respect of medico/legal claims made or actions instituted against them under the University's public liability and professional indemnity policy. However, this cover excludes claims made or actions instituted within the United States of America or Canada or territories under the jurisdiction of the courts of those countries. Students undertaking elective terms in the USA or Canada are therefore advised to ensure that they will be covered under the liability policies of the institutions at which they will be working, or that they arrange their own personal cover before commencing the term.

Further information may be obtained from the Faculty Office.

Attachment to a Hospital in the Solomon Islands

Applications must be lodged with the hospital by June of the year preceding that in which the term is to be taken. Each application must be accompanied by certification that the applicant is an enrolled medical student of the University and has been immunised against Hepatitis B.

80.501 Geriatrics/General Practice/Emergency

Term Design: Students rotate through attachments in Geriatrics (2 weeks), General Practice (2 weeks), and Emergency (4 weeks). Information about organization of attachments may be obtained from the Faculty Office.

Geriatrics Unit

Objectives: to gain an understanding of diagnosis and assessment in geriatric medicine; to address the management of certain specific disorders in the elderly such as dementia, falls, incontinence, stroke, mobility disorders, dying and terminal care; to gain information on appropriate drug therapy;

to gain insight into the roles of workers involved in caring for the elderly including physiotherapists, occupational therapists, speech therapists, community nurses and nurses in nursing homes; to become familiar with the broad spectrum of geriatric services including the day hospital, the acute hospital, the rehabilitation centre, the nursing home, community nursing and hospice care; to stimulate thought concerning future directions for an ageing Australia.

The Geriatrics Unit can be undertaken in Canberra (based at Woden Valley Hospital) or in Sydney under geriatricians attached to the School of Community Medicine. The course consists of tutorials and practical experience in a range of health care facilities.

Assessment: Students are assessed on case report assignments.

General Practice Unit

Objectives: to understand the nature of general practice in terms of: the range and content of general practice as compared with the hospital practice; the management of patients outside a hospital setting; liaison and referral within community health services; the concept of prevention of disease and health maintenance; the problems of primary diagnosis and undifferentiated illness; the concept of continuing care; the special relationship between the general practitioner and the patient; the family setting and social context of the patient.

To recall the features of: a general practice interview; the process of general practice problem-solving; the techniques of keeping accurate medical records.

A two-week individual attachment to general practitioner preceptors either in Sydney or country New South Wales. Information about attachments may be obtained from Dr. D.Saltman in the School of Community Medicine.

The course is essentially experiential with a heavy emphasis on community-based teaching.

Assessment: Continuing evaluation of clinical work.

Emergency Unit

Objectives: to recognize acute illness and life-threatening emergencies at presentation; to institute emergency measures to save life where indicated; to assess rapidly acute medical and surgical problems; to list, in order of priority, necessary procedures or investigations which will affect management to evaluate the criteria for specialist referral; to know the appropriate management of acute illness; to perform simple casualty procedures.

The experience should include the emergency care of some life threatening medical and surgical conditions, evaluation of the criteria for referral for specialist advice and care and appropriate use of investigations in primary medical care.

Information about allocation to attachments may be obtained from the Faculty Office.

Assessment: Students are assessed on the basis of a report by the student's supervisor to the Faculty Office, and a report by the student on an aspect of the attachment.

The Six Year Curriculum - an Outline of Years 4 to 6

Year 4

Most of the fourth year (4 terms of 9 weeks each) of the course is spent in the teaching hospitals involved in clinical studies with an average of one day per week being spent on campus attending interdisciplinary seminars. By the end of Year 4 students will be expected to have achieved a high level of competence in communication skills, history taking, physical examination, diagnosis, patient management and rehabilitation. In the fields of general medicine and general surgery and the associated clinical specialities, emphasis is on total patient care incorporating aspects of continuing care in the community and in community practice.

Year 5

The fifth year (4 terms of 9 weeks each) is spent studying obstetrics and gynaecology, paediatrics, psychiatry, and GP/geriatrics. The GP/geriatrics term will incorporate teaching in the subspecialities of dermatology, ophthalmology, and otolaryngology. Students must pass each term in order to progress to Year 6.

Year 6

The first term of Year 6 (4 terms of 9 weeks each) is an elective term with the remaining three terms being dedicated to further clinical studies. By the time students enter Year 6 they have completed courses in the basic clinical sciences, history taking, physical examination, and therapeutics, and have had exposure to medical and surgical subspecialities. The aim of Year 6 is to integrate and consolidate these separate experiences by enabling students to take partial responsibility for recognizing and treating medical complaints as they present to the doctor of first contact. The year will help to equip students for their internship after graduation.

Intern Placement and Registration

Each medical graduate seeking registration as a medical practitioner in New South Wales must complete a period as an interm in a hospital or institution approved by the New South Wales Medical Board. Before taking up an intern appointment, a graduate must obtain a certificate of conditional registration from the Medical Board.

Intern placement is the responsibility of the Postgraduate Medical Council of the New South Wales Department of Health. Information concerning intern placement and conditional registration is issued to each student by the Faculty Office during the final year. Information may also be obtained from:

The Postgraduate Medical Council: Department of Health, NSW, McKell Building, Rawson Place, Telephone 217 6666.

Registration: The Registrar, Medical Board of New South

Wales, Gladesville Hospital Grounds, off Puut Road, Gladesville, Telephone 879 6799.

Deferment of Internship

1.Deferment of internship for up to two years.

This may be granted by the Medical Board on the recommendation of the graduate's medical school.

Normally this will be granted on medical grounds only, but in exceptional circumstances may be granted on other personal or compassionate grounds (eg. temporary transfer overseas with spouse, child-bearing, need to care for close relative, etc.).

Normally deferment will be for one year only, and only in exceptional circumstances will it be granted on the recommendation of the medical school for two. The medical school should take undergraduate performance into account in determining the length of deferment, and if it wishes may require the applicant to undertake some form of revision and/or assessment before the internship is allowed to commence.

2.Deferment of internship for more than two years.

It a graduate does not take up an internship within two years of graduation the Board will require evidence that the applicant has undertaken an appropriate period of revision and has been assessed as meeting the standards of current graduating students by an accredited Australian medical school.

Normally this will be undertaken in the Medical School where the undergraduate course was completed, but in exceptional circumstances (eg. family transfer to another State) - it could be undertaken at another school. The Medical School should provide the Board with details of the revised program and assessment.

In the case of a long deferral, i.e. over 5 years, without significant contact with medicine, the graduate might be required to re-attend on a full time basis one or more years of the course and undertake normal undergraduate assessments.

In the case of a shorter deferral or where there has been significant contact with medicine, a special program of student attachments and assessments might be appropriate.

Ranking Students for the Award of Honours and Intern Placement

Students are ranked on the basis of their performance throughout the undergraduate course. An overall course mark is calculated for each student using the following procedure:

1. A weighted average mark for each year of the course is determined. This year mark is obtained by weighting each of the subjects in the year, mainly according to the hours of teaching. The subject weights for each of the years of the course are shown in Table 1.

2. The overall course mark is determined by applying the year weightings listed in Table 2 (for year weightings for the six year curriculum refer to Table 3) to the weighted year marks.

3. If a student was required to sit for a supplementary assessment (for other than medical reasons or other exceptional circumstances) the subject mark used is that awarded for the original assessment.

4. If a student was required to repeat a year (for other than medical reasons or other exceptional circumstances) the weighted year mark used is that obtained at the first attempt.

5. In the calculation of the average weighted course mark for BSc MBBS students, the aggregate mark for the Science component is calculated as a weighted aggregate of all subjects counted towards the Science degree, except General Education subjects. The subject weights are as follows:

- Level I subjects weighted by a factor equal to 0.0625 per unit, except Introductory Mathematics and Introductory Physics (0.05 per unit) and Higher Mathematics and Higher Physics (0.07 per unit).
- Level II subjects weighted by 0.1875 per unit.
- Level III subjects weighted by 0.25 per unit.
- Level II/III subjects to be counted as Level II or Level III according to whether the student passed the subject in Second or Third Year.
- Level IV subjects (Honours) not counted.

The three years of BSc component of the BSc MBBS course are treated as equivalent to the first two years of the MBBS course and therefore have a total year weight of 4 relative to the MBBS year weightings.

There is a limit set of 50 for the best possible score in the first year of the BSc component to put all students, whether or not they undertake Higher Mathematics or Physics, on the same footing. Only the best 24 units in the BSc component are considered in calculating the ranked score.

6. Provision is made for students admitted with advanced standing and/or exemptions in certain subjects not to be penalised in the calculation of rankings.

Award of Honours

1. The Faculty Final Year Assessment Committee considers the ranked list of students and their marks and decides the cut-off marks for the award of honours at the various levels.

2. Neither the percentage of the students obtaining honours at the various levels nor the cut-off marks are predetermined, and the Committee makes its own assessment of the level of academic attainment indicated by the overall course mark.

3. As a guide, the distribution of the awards of honours in 1988 was:

		Number	
	Course	of	% of
	Mark	Awards	graduands
Class I Honours	>70%	16	11.2
Class II Div. I	67-70%	14	9.8
Class II Div. II	64.9-67%	19	13.3

Intern Placement

The ranked list of graduates is merged with the ranked list of Sydney University and Newcastle University medical graduates.

The Postgraduate Medical Council of the New South Wales Department of Health uses that list to allocate graduands to their highest available preference.

Table 1. Subject Weightings within Years

(Five Year Course)

Year 1

Anatomy 1 Introductory Clinical and Behavioural Studies Medical Biophysics Chemistry and Biochemistry for medical students	3 2 2 4
Year 2	
Medical Biochemistry and Genetics Anatomy 2 Physiology Human Behaviour 2	3 5 6 2
Year 3	
Community Medicine Clinical Studies 3 Paraclinical Science Medical Science	2 6 13 2
Year 4	
Integrated Clinical Studies	1
Year 5	
Obstetrics & Gynaecology Paediatrics Psychiatry	1 1 1

Table 2. Year Weights for Five Year Curriculum

Year	Year Weighting
1	1
2	3
3	4
4	6
5	3

Six Year Curriculum

Subject weights for years 4 to 6 of the six year curriculum have not yet been confirmed. Subject weights for years 1, 2 and 3 of the six year curriculum are detailed in Table 3 below.

Additionally, year weights have not been confirmed however, the year weights for the five year curriculum may be taken as a guide.

Table 3. Subject Weights WithinYears 1, 2 and 3 (6 Year Curriculum)

Year 1

Anatomy Introductory Clinical and Behavioural Studies Biology for Medical Students Biochemistry for Medical Students	3 2 1 3
Year 2	
Medical Biochemistry and Genetics Anatomy 2 Medical Physiology 1 Clinical Studies 2 Human Behaviour	2 3 3 1 1
Year 3	
Microbiology for Medical Students Pathology Medical Physiology 2 Medical Pharmacology Clinical Studies 3	1 1 1 1

Undergraduate Study

3820 Combined Science and Medicine Course (BSc MB BS)

The Science/Medicine course is an alternative course of study, whereby, over a seven-year program, (or a six year program for those who entered the course prior to 1988), a student may complete the degree of Bachelor of Science, with the Bachelor degrees of Medicine and Surgery.

The Science/Medicine course is intended for those students with special interest and aptitude in science, who wish to obtain a firm grounding in basic sciences.

A limited number of places are available in this course and these are open only to students who have been accepted for entry into the Faculty of Medicine.

Students who wish to undertake this program should contact the Faculty Office as soon as possible after receiving their offer of a place in the Faculty. Selection of students for the Science/Medicine course is made approximately two weeks before commencement of Session 1.

The students undertake a three-year approved course of study leading to the award of the degree of BSc, and on completion, enter Year 3 of the normal Medicine Course.

The conditions for the award of the BSc are those laid down by the Board of Studies in Science and Mathematics (see Combined Sciences Handbook). The student is offered a choice of a number of programs, leading to a major or double major in one or two of the subjects anatomy, biochemistry and physiology. A psychology major is also a possibility; however, this cannot be completed in the three-year minimum.

After the three years, students may apply to do honours in the subject of their major, before entering the medical program.

Students who have completed the combined Science/Medicine degree course are eligible for the award of honours in the MB BS degree course, based on weighted performance in subjects (excluding the BSc degree at honours level) throughout the combined course.

Course Details

The Science course is divided up into subjects each of which is assigned a 'unit value'. For the Science degree, 23 units are required, together with three General Education electives. Students usually take 8 units in Year 1, 7 in Year 2, and 8 in Year 3. Students are strongly advised to complete the General Education requirements during the first three years, before entering the Medicine Course; otherwise there are timetabling difficulties.

Year 1

All students take two units each of physics, chemistry, mathematics and biology. There is a choice of level in mathematics and physics.

Year 2

All students must take two units each of biochemistry, anatomy, and physiology, except that students majoring in biochemistry must take a unit of organic chemistry instead of one of the biochemistry units. One unit of human behaviour

must be taken in either second or third year.

Year 3

Students are required to take a minimum of 4 Level 111 units in the subject of their major, which must be anatomy, biochemistry, physiology or psychology, together with a specified minimum number of units in anatomy, biochemistry and physiology. The possible combinations are indicated in the following table.

Subjects

Details of all subjects are given in the Combined Sciences Handbook. Details of subjects taught by Schools in the Faculty of Medicine are also published in the Subject Descriptions section later in this book.

Subjects are listed in order of their assigned prefixed, viz:

- 1 Physics
- 2 Chemistry
- 10 Mathematics
- 17 Biological Sciences
- 41 Biochemistry
- 70 Anatomy

73 Physiology and Pharmacology

Elective units may be chosen from subjects listed in Table 1 and from Anatomy units listed in Table 2 of the Board of Studies in Science and Mathematics section of the Combined Sciences Handbook.

Year 1

Session 1

2.121 Chemistry 1A

17.031 Biology A

Session 2

- 2.131 Chemistry 1B
- 17.041 Biology B

(Students in percentile range 31-100 in HSC 4 unit Science with Biology or 2 unit Biology may be permitted instead to transfer to 45.201 Invertebrate Zoology, 45.301 Vertebrate Zoology, 45.601 Introductory Genetics.)

Full Year

1.001	Physics 1
or	
1.021	Introductory Physics 1 (For Health and Life Scientists)
10.001	Mathematics 1
or	
10.011	Higher Mathematics 1
or both	•
10.021B	General Mathematics 1B (Session 1 only)

and

10.021C General Mathematics 1C (Session 2 only) 1 General Education elective

Year 2

 Full Year

 41.101
 Biochemistry

 70.011A
 Histology 1

 70.011C
 Introductory Anatomy

 73.111
 Physiology 1A

 80.014
 Human Behaviour (Science course)†

 Session 1 and 2
 1

 1
 General Education elective

* Students majoring in biochemistry should take 2.102B Organic Chemistry instead of 41.111 Biochemical Control. For students majoring in biochemistry and physiology, 2.102B will be accepted in lieu of 41.111 as a prerequisite for 73.012 Physiology 2. Students not majoring in anatomy commonly take an additional anatomy unit in *either* 70.011B Mammalian Embryology or 70.012B †Visceral Anatomy, 80.014 Human Behaviour may be taken in Year 2 or 3.

Year 3

Anatomy Major Core Units General Education elective 80.014**. 4 Level III Anatomy units† together with Single Major 4 Elective units Double Maior with Anatomy 3 Level III Anatomy units + (makes total of 7) Double Major with Biochemistry 41.102, 41.112 and 41.122 or 41.132 Double Major with Physiology 73.012 **Biochemistry Major** Core Units General Education elective 80.014**. 41.102.41.112 and 41.122 or 41.132 together with Single Major 2 Level III Anatomy units +, 2 Elective units Double Major with Anatomy 4 Level III Anatomy units † Double Major with Biochemistry Not available Double Major with Physiology 73.012 Physiology Major Core Units General Education elective 80.014**, 73.012 together with Single Maior 2 Level III Anatomy units †, 2 Elective units Double Major with Anatomy

4 Level III Anatomy units † Double Major with Biochemistry 41.102, 41.121 and 41.122 or 41.132

Double Major with Physiology Not available

** 80.014 Human Behaviour may have been taken already in Year 2.

Year 4

Students usually join Year 3 of the Medicine Course. However, students may apply to take honours in the subject of their major before proceeding to the Medicine Course. The honours program is a one-year research project in the school. Details are given in the Combined Sciences Handbook (Table 3 in the Board of Studies in Science and Mathematics Section and Subject Descriptions). Enquiries should be directed to the head of the appropriate school.

Honours may also be awarded at the time of graduation with the degrees of MB BS, on the basis of a student's performance

throughout the combined course (excepting any special studies for honours in Science). The award of honours shall be determined on the basis of a weighted aggregate mark, calculated as the sum of weighted aggregate marks obtained in the medical component of the course calculated in accordance with the rules applying to the Medicine Course 3800, together with an aggregate mark based on the Science component of the course.

Undergraduate Study

3830 Bachelor of Medical Science (BMedSc)

Bachelor of Science (Medicine) Honours (BSc(Med)Hons)

This is a one-year research program offered to students in the Medicine Course who have achieved a high standard in their studies. Students enrolled in the 5 year curriculum who complete the one-year research program in 1990, will be eligible for the award of the degree BMedSc. Those who complete the research program in conjunction with the 6 year curriculum, will be eligible for the award of the degree BSc(Med)Hons.

In general the aims of the year, normally spent in supervised research, are to enable the student to acquire an appreciation of the value of observation and experimentation in the development of medical science, and to learn how to determine the 'current state of knowledge' in a defined field. This year enables the student to gain experience in the written and spoken presentation of scientific information.

Information concerning this course option is issued to medical students in midyear. A list of available research projects may be obtained from the Faculty Office or the Clinical Schools.

Rules for the Award of the Bachelor of Medical Science Degree (BMedSc)

1.(a)Undergraduates who have successfully completed the first two years of the 5 year Medicine Course may enrol for the degree of BMedSc in one of the following subjects: anatomy, biochemistry, physiology, psychology or in any other subject approved by the BMedSc Committee, provided that the candidate's performance in the subject areas shall have been

of a high standard.

(b)Undergraduates who have successfully completed the first three years of the Medicine Course may enrol for the degree of BMedSc in one of the following subjects: anatomy, biochemistry, microbiology, pathology, pharmacology, physiology, psychology or in any other subject approved by the BMedSc Committee, provided that the candidate's performance in the subject areas shall have been of a high standard.

(c)Undergraduates who have successfully completed the first four years of the Medicine Course may register as a candidate for the degree of BMedSc in any of the schools of the Faculty of Medicine, the School of Biochemistry, the School of Microbiology or the School of Psychology, subject to the permission of the Head of the School concerned and the BMedSc Committee.

(A student electing to undertake the course at the end of fourth year of the five year MBBS course, is not automatically required to undertake terminal assessment at the end of fifth year, but will be counselled to maintain clinical competency and encouraged and assisted to arrange a short 3-4 week medical/surgical attachment before commencing Year 5.)

2.(a)Medical graduates may enrol for the degree BMedSc in any subject approved by the BMedSc Committee provided that their performance in the subject area shall have been of a high standard.

(b)A graduate may register as a candidate for the degree in any of the Schools of the Faculty of Medicine, the School of Biochemistry, the School of Microbiology or the School of Psychology, subject to the permission of the Head of the

School concerned and the BMedSc Committee.

3. The program for each candidate shall be designed to introduce the student to research in the appropriate discipline and shall consist of such formal and special work and such examinations as prescribed by the head of the School concerned and approved by the BMedSc Committee.

4. The award upon completion of the course shall be the pass degree of Bachelor of Medical Science. If the performance of the student has been unsatisfactory, no award shall be made.

Rules for the Award of the Bachelor of Science (Medicine) Degree with Honours (BSc(Med)Hons) - (For candidates in the 6 Year Medicine Course)

1.(a)Undergraduates who have successfully completed the first three years of the six year Medicine Course may enrol for the degree of BSc(Med)Hons in one of the following subjects: anatomy, biochemistry, microbiology, pathology, pharmacology, physiology, psychology or in any other subject approved by the BSc(Med) Committee provided that the candidate's performance in the subject area has been of a high standard.

(b)A student may register as a candidate for the degree in any of the Schools of the Faculty of Medicine, the School of Biochemistry, the School of Microbiology or the School of Psychology, subject to the permission of the head of the School concerned and the BSc(Med) Committee.

2.(a)Medical graduates may enrol for the degree of BSc(Med)Hons in any subject approved by the BSc(Med) Committee provided that their performance in the subject area has been of a high standard.

(b)A graduate may be registered as a candidate for the degree in any of the Schools of the Faculty of Medicine, the School of Biochemistry, the School of Microbiology or the School of Psychology, subject to the permission of the Head of School concerned and the BSc(Med) Committee.

3. The program for each candidate shall be designed to introduce the student to research in the appropriate discipline and shall consist of such formal and special work and any examinations prescribed by the Head of School concerned and approved by the BSc(Med) Committee.

4.The award upon completion of the course shall be Bachelor of Science (Medicine) with Honours Class I, Honours Class II, Division 1 or Honours Class II, Division II. If the performance of the student has been unsatisfactory no award of honours shall be made.

Assessment Guidelines (BMedSc - for candidates in the 5 year Medicine course, and BSc (Med) Hons - for candidates in the 6 year Medicine course.)

1. Schools make assessments on the advice of the supervisor and at least two assessors. Where the student performs his or her work in a clinical school, but is registered in a pre-clinical discipline, at least one of the assessors could be chosen from a relevant pre- or para-clinical school.

2. A thesis is compulsory and forms a major part of the assessment. The thesis must be typed and suitable for subsequent binding if required. The typescript length of the thesis is normally no more than 20,000 words.

3. It is desirable that candidates participate in the activities of the school by participation in seminars, by presentation of essays and other prescribed activities.

4. Candidates are normally required to give an oral presentation during the year and this may be taken into account in the assessment.

5. The degree BMedSc, may be awarded in the following grades: High Distinction, Distinction, Credit, Pass, Pass Conceded and Fail or no award made. The degree of BSc(Med)Hons may be awarded in the following grades: Honours Class I; Honours Class II, Division I; Honours Class

Undergraduate Study

Subject Descriptions

Identification of Subjects by Number

A subject is defined by the Academic Board as 'a unit of instruction approved by the University as being a discrete part of the requirements for a course offered by the University'.

Each approved subject of the University is identifiable both by number and by name as this is a check against nomination of subject other than the one intended.

Subject numbers are allocated by the Academic Registrar and the system of allocation is based on the following guidelines:

1. The authority offering the subject, normally a School of the University, is indicated by the number before the decimal point.

2. Each subject number is unique and is not used for more than one subject title.

3. Subject numbers may not be re-used with a new subject title within ten years of the prior use.

4. Graduate subjects are indicated by a suffix 'G' to a number with three digits after the decimal point. In other subjects three or four digits are used after the decimal point.

Subjects taught are listed in full in the handbook of the faculty or board of studies responsible for the particular course within which the subjects are taken. Subject descriptions are contained in the appropriate section in the handbooks.

The **identifying numerical prefixes** for each subject authority are set out on the following page.

Servicing Subjects are those taught by a school or department outside its own faculty. Their subject descriptions are published in the handbook of the faculty which originates the subject and are also published in the handbook of the Faculty in which the subject is taught.

The following pages contain descriptions for most of the subjects offered for the courses described in this book, the exception being the General Education subjects. For General Education subjects see the General Studies Handbook which is available free of charge.

HSC Exam Prerequisites

Subjects which require prerequisites for enrolment in terms of the HSC Examination percentile range, refer to the **1978 and subsequent Examinations.**

Candidates for enrolment who obtained the HSC in previous years or hold other high school matriculation should check with the appropriate school on what matriculation status is required for admission to a subject.

Information Key

The following is the key to the information which may be supplied about each subject:

S1 Session 1, S2 Session 2

F Session 1 plus Session 2, ie full year

S1 or S2 Session 1 or Session 2, ie choice of either session

SS single session, but which session taught is not known at time of publication

CCH class contact hours

L Lecture, followed by hours per week

T Laboratory/Tutorial, followed by hours per week

hpw hours per week

- C Credit point value
- CR Credit
- **DN** Distinction

HD High Distinction

School, Department etc *Subjects also offered for c	Faculty ourses in this handbook	School, Department etc Faculty *Subjects also offered for courses in this handbook
School of Physics*	Science	41 School of Biochemistry* Biological and
School of Chemical Engineering and Industrial	Applied Science	42 School of Applied Applied Science
Chemistry (New Course)	Applied Science	44 School of Microbiology Biological and
Science and Engineering		45 School of Biological Biological and
Industrial Engineering		Science Behavioural Sciences 46 Faculty of Applied Science Applied Science
Engineering and	Engineering	47 Centre for Safety Science Engineering 48 School of Chemical Applied Science
School of Mines	Applied Science	Engineering and Industrial Chemistry (Old Course)
(Mineral Processing and Extractive Metallurgy and		49 School of Applied Applied Science
Mining Engineering) School of Civil	Engineering	50 School of English Arts
Engineering		51 School of History Arts
School of Fibre Science	Applied Science	53 School of Sociology* Arts
(Wool and Animal Science))	54 School of Political Arts
School of Mathematics*	Science	Science 55. School of Librarianshin Professional Studios
School of Architecture	Architecture Rielegiaal and	56 School of French Arts
school of Psychology"	Diological and Behavioural Sciences	57 School of Theatre Studies Arts
School of Fibre Science	Applied Science	58 School of Education Professional Studies
and Technology	ppnos opionos	59 Department of Russian Arts
(Textile Technology)	Commerce & Economics	60 Faculty of Arts Arts
School of Economics	Commerce & Economics	61 Department of Music Arts
School of Health Services Management	Professional Studies	62 School of Science and Arts Technology Studies
' Faculty of Biological and	Biological and	63 School of Social Work Professional Studies
Behavioural Sciences * School of Mechanical and	Behavioural Sciences Engineering	64 School of German Arts Studies
Industrial Engineering (Industrial Engineering)		65 School of Spanish and Arts Latin American Studies
School of Information	Commerce & Economics	66 Subjects Available from Other Universities
Centre for Petroleum	Applied Science	67 Faculty of Science Science
Engineering Studies	Architecture	68 Board of Studies in Board of Studies in Science and
Arts		Mathematics Mathematics
2 Faculty of Professional Studies	Professional Studies	69 School of Arts Education Professional Studies
3 School of Primary and	Professional Studies	70 School of Anatomy Medicine 71 School of Medicine Medicine
Computer Education	Applied Science	72 School of Pathology Medicine
(Applied Geology)		73 School of Physiology and Medicine Pharmacology
and General Studios	Liberal and General Studies	74 School of Surgery Medicine
School of Geography	Applied Science	75 School of Obstetrics and Medicine
School of Marketing	Commerce & Economics	Gynaecology 76 School of Paediatrice Medicine
School of Surveying	Engineering	77 School of Psychiatry Medicine
School of Industrial Relations and	Commerce & Economics	78 School of Medical Medicine Education
Urganizational Benaviour	Science	79 School of Community Medicine
2 Centre for Biomedical	Engineering	Medicine RD Excutty of Medicine Medicine
Engineering 3 School of Sports and	Professional Studies	81 Medicine/Science/ Medicine
Leisure Studies	A	Biological Sciences 85 Australian Graduate AGSM
Faculty of Arts	Arts Architecture	School of Management
5. School of Building	Architecture	90 Faculty of Law* Law
7 School of Landscape	Architecture	97 Faculty of Engineering Engineering
Architecture Graduate School of the	Architecture	and Finance
Built Environment		99 Department of Legal Commerce & Economics Studios and Taxation

Faculty of Medicine - Summary of Undergraduate Study Descriptions

The following Subject Descriptions are presented only by subject number and title, together with the year in which each subject is to be taken in the Medicine Course. **Note:** Those subjects given as Yr 1 refer to the first year subjects of the six year curriculum.

For full details of subject content and assessment consult the subject descriptions listed in the Course Details under the relevant year listing in the Undergraduate Study section of this handbook.

41.001	Biochemistry for Medical Students	Yr 1
41.002	Medical Biochemistry and Genetics	Yr 2
70.001	Anatomy 1	Yr 1
70.002	Anatomy 2	Yr 2
73.0 01	Biology for Medical Students	Yr 1
73.002	Physiology	Yr 2
75.101	Obstetrics and Gynaecology	Yr 5
76.101	Paediatrics	Yr 5
77.101	Psychiatry	Yr 5
79.112	Community Medicine	Yr 3
80.010	Introductory Clinical & Behavioural Studies	Yr 1
80.012	Clinical Studies 2	Yr 2
80.013	Clinical Studies 3	Yr 3
80.105	Final Clinical Examinations	Yr 5
80.212	Human Behaviour 2	Yr 2
80.311	Paraciinical Science	Yr 3
80.321	Medical Science	Yr 3
80.400	Integrated Clinical Studies	Yr 4
80.500	Elective	Yr 5
80.501	Geriatrics/General Practice/Emergency	Yr 5

Physics

Physics Level I Subjects

HSC Exam Score Range
Required
67-100
1-50
1-100 or
(for 1.001 only) 10.021B
57-100
60-100
90-150
1-150

Co-requisite: 10.021C or 10.001.

* This refers to the 2 Unit Mathematics subject which is related to the 3 Unit Mathematics subject. It does not refer to the subject 2 Unit Mathematics (Mathematics in Society).

Aims and nature of physics and the study of motion of particles under the influence of mechanical, electrical, magnetic and gravitational forces. Concepts of force, inertial mass, energy, momentum, charge, potential, fields. Application of the conservation principles to solution of problems involving charge, energy and momentum. Electrical circuit theory, application of Kirchoff's laws to AC and DC circuits. Uniform circular motion, Kepler's laws and rotational mechanics. Properties of matter: solids, liquids, gases. The wave theories of physics, transfer of energy by waves, properties of waves. Application of wave theories to optical and acoustical phenomena such as interference, diffraction and polarization.

1.021 Introductory Physics 1 (For Health and Life Scientists) F L3T3

Prerequisites: Nil. Co-requisite: 10.021B and 10.021C, or 10.001.

Principally for students majoring in the life and health sciences disciplines. Topics at an introductory level.

The methods of physics, describing motion, the dynamics of a particle, conservation of energy, kinetic theory of gases, properties of liquids, vibrations and waves, electricity and conduction in solids, ions and ionic conduction, magnetism and electromagnetic induction, alternating current, atomic nature of matter, X-rays, the nucleus and radio-activity, geometrical optics, optical instruments, wave optics, microscopes and their uses.

Chemistry

2.121	Chemistry 1A	S1 or S2 L2T4
Prereaui	sites:	
		HSC Exam
		Score Range
		Required
2 unit Ma	athematics or	67-100
3 unit Ma	athematics or	1-50
4 unit Ma	thematics	1-100

and	
2 unit Science (Physics) or	53-100
2 unit Science (Chemistry) or	53-100
4 unit Science or	1-50
3 unit Science or	90-150
2.111	

 This refers to the 2 Unit Mathematics subject which is related to the 3 Unit Mathematics subject. It does not refer to the subject 2 Unit Mathematics (Mathematics in Society).

Stoichiometry and solution stoichiometry. Properties of gases; kinetic molecular theory. Thermochemistry. Atomic structure, electro configurations and the periodic table. Types of chemical bonds, electronegativity, molecular geometry. Periodicity of physical and chemical properties of common representative elements and compounds. Liquids and solids, changes of state, phase diagrams. Types of solids. Solutions and their properties. Colloids. Facts and theories about reaction kinetics.

Note: Students who have passed 2.121 or 2.131 may not enrol in 2.111 or 2.141. Students meeting the 2.121 or 2.141 prerequisite are not permitted to enrol in 2.111 without the permission of the Head of the School of Chemistry. Students who enrol in 2.111 must pass 2.111 before they can proceed to 2.121 or 2.131 or 2.141.

2.131 Chemistry 1B S1 or S2 L2T4

Prerequisite: 2.121.

Chemical equilibrium, equilibrium constants, quantitative calculations applied to acid-base and solubility equilibria; buffers, titrations, chemical analysis. Oxidation and reduction reactions, electrode potentials. Chemical thermodynamics, entropy, free energy. Chemistry of carbon compounds, stereoisomerism; alkanes, alkenes, alkynes, aromatic compounds, alcohols, ethers, aldehydes, ketones, carboxylic acids and derivatives amines.

Note: Students who have passed 2.111 may be permitted to enrol in 2.131 on application to the Head of the School of Chemistry.

Mathematics

10.001 Mathematics 1

Prerequisite:

2 unit Mathematics or

3 unit Mathematics or

HSC Exam Score Range Required 67-100

1-50

1-100

F L4T2

4 unit Mathematics or 10.021B. Excluded: 10.011, 10.021B, 10.021C.

This refers to the 2 Unit Mathematics subject which is related to the 3 Unit Mathematics subject. It does not refer to the subject 2 Unit Mathematics (Mathematics in Society).

Calculus, analysis, analytic geometry, linear algebra, an introduction to abstract algebra, elementary computing.

10.021B General Mathematics 1B

Prerequisite:

	Score Range
	Required
2 unit Mathematics or	60-100
3 unit Mathematics or	1-50
4 unit Mathematics	1-100
Excluded: 10.011, 10.001.	

Functions (and their inverses), limits, asymptotes, continuity; differentiation and applications; integration, the definite integral and applications; inverse trigonometric functions; the logarithmic and exponential functions and applications; sequences and series; mathematical induction; the binomial theorem and applications; introduction to probability theory; introduction to 3-dimensional geometry; introduction to linear algebra.

10.021C General Mathematics 1C S2 L4T2

Prerequisite: 10.021B. Excluded: 10.001, 10.011.

Techniques for integration, improper integrals; Taylor's theorem; first order differential equations and applications; introduction to multivariable calculus; conics; finite sets; probability; vectors, matrices and linear equations.

Biological Science

Plant Science

17.031 Biology A	S1 L2T4
Prerequisite:	HSC Exam Score Range Required
2 unit Science (Physics) or 2 unit Science (Chemistry) or	53-100 53-100
2 unit Science (Geology) or 2 unit Science (Biology) or 3 unit Science or	53-100 53-100 90-150
4 unit Science	1-50

Basic cell structure; membranes, organelles, prokaryotic and eukaryotic cells; cellular locomotion; basic biological molecules; enzymes; structure and metabolic roles, cellular compartmentalization and enzyme function; diffusion, osmosis and active transport; theory of inheritance, linkage, mutation, informationt ransfer and protein synthesis.

Requirements for Practical Work

Equipment required for practical work is set out in the Course Guide, available during enrolment time at the First Year Registration Centre (Physics Building). Students must purchase this prior to the first week of session.

HSC Exam

Undergraduate Study: Subject Descriptions

17.041 Biology B

S2 L2T4

Prerequisite: 17.031 (however, students without this prerequisite may seek the permission of the Director of First Year Biology to enrol). Excluded. 17.021.

The evolution, diversity and behaviour of living things and the ways in which they have adapted to varying environments. Emphasis on the structure and function of flowering plants and vertebrate animals, and their roles in Australian ecosystems. The theory covered in lectures and tutorials is illustrated by observation and experiment in laboratory classes.

Animal Science

17.722 Biology of Invertebrates S2 L2T4

Prerequisites: 17.031, 17.041.

A comparative study of morphology, taxonomy and functional biology of invertebrate animals. Emphasis is placed on the major groups (Arthrpods and Milluscs) and on marine forms. Practical classes and a compulsory field camp illustrate the lecture material.

The morphology and systematics of the major Phyla of invertebrate animals will be considered on a group by group basis. beginning with relatively simple animals and moving to the more complex. Within this framework the following will be considered: 1. functional biology including physiology. feeding mechanisms, reproduction and mode of life (free-living, sessile and parasitic); 2. the effect of increasing body size and complexity on physiological function (internal transport systems, excretion, gas exchange and coordination); 3. detailed coverage of the invertebrate component of zooplankton; 4. evolutionary relationships between Phyla - the Phyla covered will include Porifera. Cnidaria and Ctenophora, Platyhelminthes, Nemertina, Nematoda, Annelida, Arthropoda, Onvchophora, Sipuncula, Brvozoa. Mollusca. Echinodermata, Hemichordata, Chaetognatha and non-vertebrate Chordata.

17.732 Vertebrate Zoology S1 L3T3

Prerequisites: 17.031, 17.041.

A comparative study of the Chordata, with particular reference to the vertebrates, including morphology, systematics, evolution and natural history, with reference to selected aspects of physiology and reproduction. Practical work to supplement the lecture course. Field excursions as arranged.

Biochemistry

41.101 Principles of Biochemistry and Molecular Biology

F L2T3

Prerequisites: 18.031 and 17.041, 2.121 and 2.131, or 2.141. Excluded 2.003J.

The chemical properties of amino acids, peptides and proteins, carbohydrates, nucleic acids and lipids and the biological roles of these compounds. The nature and function of enzymes. The intermediary metabolism of carbohydrates, lipids and nitrogenous compounds. The relationship between structure and function of enzymes, other proteins, hormones and biological membranes, metabolic networks and control mechanisms. The molecular mechanism of gene expression and protein synthesis. Photosynthesis. Practical work to complement the lectures. Regulation of gene expression. Recombinant DNA technology and protein engineering. Introduction to biotechnology.

41.102 Biochemistry of Macromolecules S1 L3T9

Prerequisites: 41.101, and 2.102B or 2.102D. Excluded: 41.102A

Complex carbohydrates. Chemistry and biology of polynucleotides. Methods of amino acid and nucleic acid sequence analysis. Protein structure and synthesis. Active centres of some proteins. Sub-unit organization of proteins. Enzyme kinetics and enzyme mechanisms. Spectroscopy of biopolymers. Practical work to illustrate the lectures and to provide experience in modern biochemical techniques.

41.112 Human Biochemistry

Prerequisite: 41.101.

Aspects of metabolism that are of particular relevance to the human: nutrition, exercise, neurochemistry, xenobiotics and genetic diseases.

The role of triglyceride, cholesterol and lipoprotein metabolism in human health, and other selected areas of human nutrition. Exercise, the metabolic fuels utilized and the use of in vivo NMR to monitor changes in energy metabolism. Specialized aspects of endocrinology and neurochemistry including prostaglandins, leukotrienes, enkephalins and endorphins. The interrelation of purines, pyrimidines, folate and cobalamin metabolism in humans. Xenobiotics: the metabolism of foreign compounds by humans. Biochemical aspects of genetic disease including the use of recombinant DNA techniques for prenatal diagnosis and carrier detection. Practical work to amplify the lectures.

41.122 Cellular Biochemistry and Control S2 L2T4

Prerequisite: 41.101. Excluded: 41.102B

Cell biology from a molecular physicochemical viewpoint. Biochemical aspects of cellular organization and how they are integrated and controlled. The arrangement of the component molecules of organelles, their function in integrated cellular metabolism to molecular interactions between the cells of multicellular organisms. The biochemistry of the cytoskeleton, carriers and intracellular transport systems. The regulation of cellular processes at the molecular endocrine level. Growth and differentiation. Aspects of cancer metabolism, the biochemistry of cell to cell communication and the structure and function of the extracellular matrix. This subject is complementary to 43.192 Ultrastructure, and students with a special interest in cell biology are encouraged to take both subjects. Practical work to amplify the lectures.

S2 L2T4

Anatomy

Servicing Subjects

These are subjects taught within courses offered by other faculties.

For further information regarding the following subjects see the Sciences Handbook.

70.011A Histology 1

F L1T2

Prerequisites: 17.031, 17.041. Co-requisite: 70.011C

Elementary theory of light and electron microscopy. Cell morphology and cell ultrastructure. Introduction to simple histological techniques. Basic histology, including the morphological and functional properties of epithelial, connective, muscle and nervous tissues. Systematic histology, including a histological examination of the major systems of the body; cardiovascular, respiratory, lymphatic, integumentary, digestive, endocrine, urinary, reproductive and nervous (including eye and ear) systems. Emphasis on the ability to interpret histological sections and selected electron micrographs of mammalian tissues and organs and to relate morphology to tissue and organ function. One lecture per week followed by a 2-hour practical-tutorial class.

70.011B Mammalian Embryology F L1T2

Co-requisites: 70.011A, 70.011C

History of embryology and its development as a science. The mammalian reproductive system. Gametogenesis. Fertilization and cleavage. Development and implantation of blastocyst. Development of embryonic disc, embryonic membranes, placenta. Comparative mammalian placentation. Human embryogenesis. Development of human fetus. Characteristics of external form. Teratology. Human organogenesis. Comparative mammalian development. Biochemistry and embryogenesis.

70.011C Introductory Anatomy S1 L2T4

Prerequisites: 17.031, 17.041.

Introduction to gross anatomy, based on a study of prosected specimens. Musculoskeletal, cardiovascular, respiratory, gastrointestinal, genitourinary and nervous systems. General topographical and surface anatomy.

70.012B Visceral Anatomy S2 L2T4

Prerequisite: 70.011C.

A detailed study of the visceral system, including autonomic nervous system, head and neck regions and the cardiovascular, respiratory, gastrointestinal and genitourinary systems. In addition, tutorials include clinical cases and surface and radiological anatomy.

70.012C Neuroanatomy 1

Prerequisites: 70.011A, 70.011C.

Nerve cells and glial cells, cytoarchitecture of brain and spinal cord. Functional anatomy of sensory and motor processing, and higher cerebral functions such as language and emotions. Blood supply of the central nervous system, cerebrospinal fluid and membranous coverings. Comparative anatomy of the brain.

70.013 Anatomy 4

F

F

S2 L2T4

Prerequisite: Completion of the first three years of any Science program with a major in Anatomy (see Table 3 of Combined Sciences Handbook).

An honours program consisting of the preparation of an undergraduate thesis and participation in School seminars.

70.304 Histology 2

Prerequisite: 70.011A. Excluded: 70.3041. (If 70.304 is taken after 70.3041, total counts only 1 unit.)

Advanced mammalian histology, with particular reference to the human. Practical histological procedures: fixation, section preparation, staining. Microscopy. Theoretical, practical and applied histochemistry. Project work.

70.3041 Histological and Histochemical Techniques S2 L1T2

Prerequisities: 17.031, 17.041 and either 41.101 or 45.301 or 70.011A. Excluded: 70.304

May not be offered in 1990.

Practical histological procedures: fixation, section preparation, staining. Microscopy. Theoretical, practical and applied histochemistry.

70.305 Neuroanatomy 2 S2 L1T2

Prerequisite: 70.021C.

Topics of contemporary neuroanatomy and neuroscience. Includes: sensory, motor, and associational areas of the cerebral cortex, cerebral asymmetry, hippocampus, regulatory centres of the brainstem organization of cerebellum, sensory organs. Recent advances in chemical neuroanatomy and neuroendocrinology. Neuroanatomy of major neurological diseases, scientific basis of novel approaches to treatment. Recent work on the development of the brain. The course is organized in seminar format, and is based primarily on original publications. Students are required to undertake a substantial amount of private study.

70.306 Functional Anatomy 1 S1 L2T4

Prerequisite: 70.011C.

Introduction to fundamental issues in the morphology and dynamics of human movement systems. Includes: physical properties of bone, muscle and connective tissue; biomechanics, movement analysis and neuromuscular control. These basic principles are applied to a study of musculoskeletal components of head and neck and upper limb. Emphasis on modern analytical techniques and findings. Tutorials include limb and joint dissections plus study of surface and radiological anatomy.

70.307 Functional Anatomy 2

Prerequisite: 70.306.

S1 L2T4

A continuation of 70.306. Includes: a detailed study of the musculoskeletal components of trunk and lower limb, functional morphology of muscle, biomechanics and energetics of walking and running.

Undergraduate Study: Subject Descriptions

Medicine

Servicing Subject

This is a subject taught within a course offered by another faculty.

For further information regarding this subject see the Combined Sciences Handbook.

71.001 Principles of Medicine for Optometry Students FL1

Prerequisite: None. Students normally take the subject in Year 4 of course 3950.

An overview of all aspects of current clinical medical practice. Included are historical, epidemiological, pathophysiological, diagnostic, therapeutic and public health aspects of disease in man and the various clinical categories of practice.

Pathology

Servicing Subject

This is a subject taught within a course offered by another faculty.

For further information regarding this subject see the Combined Sciences Handbook.

72.301 Basic and Applied Pathology F L2T1

Prerequisites: 70.011A, 70.011C, 73.111 or equivalent.

Lectures and practical class demonstrations. Includes exposition of the basic classification of pathological processes, study of the processes of cell and tissue degeneration, acute and chronic inflammation, vascular disease, including thrombosis, embolism, ischaemia and infarction. Coverage of the processes of healing and regeneration with specific reference to healing of skin wounds and the healing of fractures. Aberrations of cell growth used to introduce the subject of neoplasia and carcinogenesis. Exposure to examples of specific disease entities of general practical importance exemplifying the basic or fundamental processes such as appendicitis, pneumonia, arthritis, pulmonary and myocardial infarction as well as lung, alimentary and cerebral tumours. Correlation of pathological processes with development of specific clinical syndromes.

Physiology and Pharmacology

Servicing Subjects

These are subjects taught within courses offered by other faculties.

For further information regarding the following subjects see the Combined Sciences Handbook. The subject 73.111 also appears in the Faculty of Engineering Handbook.

73.011 Principles of Physiology (Optometry)L2¹/₂T3¹/₂

Prerequisites: As for Physiology 1 except that 2.131 may be accepted as a co-requisite. Excluded 73.111. Covers the same general areas of physiology as Physiology 1 but in less detail and with less intensive practical courses. Principles of Physiology is taken only by students in the BOptom degree course.

73.012 Physiology 2 F L4T8

Prerequisites: 73.111, 41.101, 41.111.

A major subject offered in third year, providing a more advanced course of study in Physiology. Students spend considerable time performing laboratory experiments which illustrate various physiological principles and introduce them to the techniques used in physiological investigation. The course is orientated towards the areas of physiology constituting the major research interests of the School. It is divided into several sections which may be available in special circumstances as separate 1 and 2 unit Level III courses, including Membrane Biology, Neurophysiology and Organ Physiology, details of which are given below.

73.012A Membrane Biology

S1 L2T4

For entry consult Head of School of Physiology and Pharmacology.

The properties of cell membranes including permeation of ions, solutes and water across membranes, generation of electrical signals in nerve and muscle cells produced by ion movements, and transmission of information between cells. Stress on modern research techniques and on a critical examination of appropriate classical papers.

73.012B Neurophysiology

S1 L2T4

For entry consult Head of School of Physiology and Pharmacology.

A detailed study in two broad areas, neural mechanisms in sensation and the control of posture and movement. Includes the regulation of visceral and other autonomic effector structures and the neural substrates and correlates of certain higher functions such as speech, memory and consciousness. Directed towards the experimental analysis of nervous system function, to introduce the techniques and approaches used in neurophysiological research. Sensation: an integrated lecture and experimentalcourse is given on somatic, visual and auditory sensory mechanisms. Laboratory work: students conduct psychophysical experiments to evaluate subjective sensory capabilities. The neural mechanisms underlying these subjective abilities are examined in animals in electrophysiological experiments which involve recording the impulse patterns from individual neurones within the sensory systems. Students are required to analyze the mechanisms employed by the nervous system to code information about specific parameters of sensory stimuli.

Lectures and experiments on motor function are directed towards an understanding of the various reflex and voluntary mechanisms controlling posture and movement. The section dealing with nervous control of visceral function is concerned mainly with regulation of cardiorespiratory activity.

73.012C Organ Physiology

S2 L4T8

Prerequisites: for 73.012A, B, C: normally as for 73.012. For entry consult Head of School of Physiology and Pharmacology. An advanced study dealing with major physiological systems

of the body and usually includes detailed segments from: the cardiovascular and respiratory systems; endocrines, kidney,

fetalphysiology, gastrointestinal physiology and exercise physiology. Emphasis on the functions of individual organs as well as the overall operations of particular body systems including their neural control mechanisms. Emphasis on the approaches and techniques involved in physiological research. Students are therefore required to carry out an extensive series of experiments which usually employ mammalian (including human) preparations.

73.022 Pharmacology

F L2T4

79.202

Prerequisite: 73.111 or 73.121. Co-requisites: 73.012 or 41.102A 41.102B or two Level III Chemistry units.

Includes a study of the absorption, distribution and metabolism of drugs, as well as a study of the pharmacology of the autonomic nervous system, the cardiovascular system, the central nervous system, the kidney, the endocrine system and also a study of pharmacokinetics. A practical class program complements the lecture program by demonstrating a variety of basic pharmacological techniques.

73.111 Physiology 1

F L2T4

Prerequisites: 17.031 17.041; 2.241, or 2.221 and 1.001, or 2.221 and 1.021; 10.001 or 10.011 or 10.021 B C. Excluded: 73.121, 73.011. Co-requisite: 41.101.

In exceptional cases Chemistry 1T will be accepted as a prerequisitie in the absence of Physics 1 with the permission of the Head of School.

Introduction to fundamental physiological principles, dealing first with basic cellular function in terms of chemical and physical principles, and, second, with the operation of the various specialized systems in the body, for example, the cardiovascular system, whose function it is to transport materials to and from the tissues of the body; the respiratory system which must maintain the exchange of oxygen and carbon dioxide between the atmosphere and the blood; the gastrointestinal system which enables food materials to be modified by digestion and absorbed into the circulation: the kidney which is involved in the regulation of body fluid and electrolyte balance and with the excretion of the waste products of metabolism; the endocrine system which releases chemical messengers, called hormones, that are carried in the blood stream to regulate a great variety of body functions, eg metabolism and reproductive activity; the nervous system which by means of very rapidly propagated electrical impulses is responsible for all our movements, sensations, memories, emotions and consciousness itself. A substantialseries of practical class experiments on these different areas of physiology is included in the course. This subject is taken by students enrolled in any of the Physiology program.

Community Medicine

Servicing Subjects

These are subjects taught within courses offered by other faculties.

For further information regarding the following subjects see the Combined Sciences Handbook.

79.201 Population Genetics

Prerequisite: one unit of statistical methods, or theory, as approved by the Head of School.

The genetic structure of populations: demographic structure, genetic relationships, mating systems (random and assortative mating, inbreeding, sexual selection), finite populations, systematic forces (selection, mutation, migration), genetic distance between populations, genetic load, stable populations, molecular population genetics, evolutionary trees; observed human population structures; computer methods.

Human Genetic Analysis S2 L2T3

Prerequisites: one unit of genetics and one unit of statistical methods, or theory, as approved by the Head of School.

Principles and methods of human genetics: design of surveys, including twin and family studies; estimation and applications of genic and genotypic frequencies, selective values, mutation and migration rates, coefficients of kinship, inbreeding and assortative mating, effective population sizes, recombination fractions and heritabilities; segregation analysis; risks of recurrence of disease; genetical consequences of human intervention; computer methods.

79.302 Biochemical Genetics of Man S1 L2T4

Prerequisites: 41.101, 43.101.

Inherited variation of blood group antigens, serum proteins and red-cell enzymes, their possible selective roles, and their application to the study of differences between and within populations. Applicaton of statistical techniques to analyzing population data.

Faculty of Medicine

Servicing Subject

This is a subject taught within courses offered by other faculties.

For further information regarding the following subject see the Combined Sciences Handbook.

80.014 Human Behaviour F L3

Prerequisites: No formal prerequisites. Students may take the subject in Year 2 or Year 3 of Course 3820.

As for 80.212. See **Undergraduate Study: 3800 Medicine Course**, earlier in this handbook.

Graduate Study

Faculty of Medicine Graduate Enrolment Procedures

All students enrolling in graduate courses should obtain a copy of the free booklet *Re-Enrolling 1990* available from the School Offices and the Admissions Office. This booklet provides detailed information on enrolment procedures and fees, enrolment timetables by faculty and course, enrolment in miscellaneous subjects, locations and hours of cashiers and late enrolments.

Students interested in undertaking a graduate course should consult the Postgraduate Section (through the Admissions Office in the Chancellery, and/or the appropriate head of school).

Graduate Courses

At the graduate level, study for the award of the degrees of Doctor of Medicine (MD), Master of Community Health (MCH), Master of Health Personnel Education (MHPEd), Master of Paediatrics (MPaed), Master of Psychotherapy (MPsychotherapy), Master of Public Health (MPH) and Master of Surgery (MS) may be undertaken; in addition the degrees of Doctor of Philosophy (PhD), Master of Science (MSc) and Diploma of Paediatrics (DipPaed), are also offered.

Full details of the conditions of the award of these degrees are shown in this handbook under Conditions for the Award of Higher Degrees.

School of Community Medicine

The School offers programs of study leading to the awards of the degrees of Master of Community Health and Master of Public Health either by research or by formal course work.

2855

Master of Community Health By Research

MCH

This course is designed for health personnel engaged in various areas of community health services and professions who wish to develop their research skills by undertaking studies leading to the award of the degree of Master of Community Health, either as full-time or part-time internal students, or as students external to the University. External candidates are required to spend a minimum of 14 weeks in the School.

An original investigation under the direction of a supervisor for a minimum period of three academic sessions in the case of a full-time candidate, or a minimum of four academic sessions in the case of a part-time or external candidate is required.

Appropriate areas for research include prevention and health promotion; primary health care; health of particular population groups; occupational and environmental health; epidemiology; health of the elderly; disability and rehabilitation; alcohol, smoking and drug dependence; health services and evaluation; community mental health; community genetics; or a field approved by the head of the school.

The candidate is required to submit a thesis embodying the results of the original investigation.

9020

Master of Community Health By Formal Course Work

MCH

The course is designed to further the competence and skills of health personnel in problem-solving and practice in community health and health services, and to enhance practical skills and provide experience in epidemiological and preventive techniques, health education and promotion. A major emphasis in the course is on student activity, both individually and in small groups.

The masters degree program is a part-time course of two and a half years. Candidates are required to complete a program totalling 24 credits over four sessions, made up of 3 nominated subjects (14 credits) and 5 academic electives (10 credits). Candidates must also undertake a research project during a further session.

Nominated Subjects

Sessions	1 and 11	Hours per week
79.511G	Epidemiology I (Methodology)	3
79.512G	Epidemiology II (Practice)	<u>3</u>
		6

Academic Electives

Students are required to obtain 10 credit points through elective subjects. With the approval of the Higher Degree Committee and upon recommendation of the head of the school, students may undertake relevant elective subjects offered by other Schools within the University or by other Universities or tertiary institutions. Each elective subject has two credit points. The elective subjects offered by the School of Community Medicine are listed in the following:

		Credits
79.600G	Disability	2
79.601G	Health of the Elderly	2
79.602G	Health and Illness Behaviour	2
79.603G	Communication and Writing in Health	2
79.604G	Alcohol and Drug Related Problems	2
79.605G	Health in Developing Countries	. 2
79.606G	Women and Health	2
79.607G	Researching Womens Health	2

79.504G Project

The research project may be undertaken in the following areas: prevention and health promotion; primary health care; health of particular population groups; occupational and environmental health; epidemiology; health of the elderly; disability and rehabilitation; alcohol, smoking and drug dependence; health services and evaluation; community mental health; or in a field approved by the head of the school.

2845 Master of Public Health (By Research)

Master of Public Health MPH

The Master of Public Health course has been developed in response to changing health needs in the community. The program combines studies in management, development and education, in addition to the necessary knowledge of epidemiology, quantitative methods and health issues. The course integrates development of health programs with development of the people who run the programs. It embraces the skills necessary for successful change through planning, inter-personal communication and persuasion, leadership and management, as well as political and cultural sensitivity to the effects of change.

The course is a conjoint undertaking by the Schools of Community Medicine and Medical Education within the Faculty of Medicine, and the School of Health Administration within the Faculty of Professional Studies.

Facilities are available in the Schools for students to undertake research studies leading to the degree of Master of Public Health, as either full-time internal students, part-time internal students, or part-time students external to the University. Students are required to have a suitable first degree and are normally expected to have considerable experience in their proposed field of study within the health or hospital services. Enquiries should be directed to the Course Director.

9045

Master of Public Health (By Formal Course Work)

Master of Public Health MPH

The course is generally needs and problem oriented. The program for each student can, within limits, be tailor-made in terms of their disciplinary and workforce backgrounds, and their interests. It is a conjoint undertaking by the Schools of Community Medicine and Medical Education within the Faculty of Medicine, and the School of Health Administration within the Faculty of Professional Studies. Elective subjects may also be taken in other relevant schools within the University. The provision of independent studies within the three Schools also allows for the provision of highly specific subjects or small projects, given the appropriate teaching or supervisory resources.

Some areas of knowledge, skills, theoretical and conceptual bases are, however, considered necessary as a foundation for public health planning, program implementation and operation, and evaluation. These are nominated for all students unless previous formal education at an acceptable level can be demonstrated.

The course may be taken either full-time (3 academic sessions, 2 of which must be spent in formal course work within the University), or part-time (a minimum of 4 academic sessions of formal work, although the normal expectation would be 5-6 sessions).

Outline

Students are to undertake 12 two credit point subjects, which may include independent studies, and a major project to a total of 30 credit points. (Each credit point is equivalent to one class contact hour per week.)

(i) Of these 12 subjects:

2 must be chosen from Population and Methodological Studies

2 must be chosen from Health Issues Studies

1 must be chosen from Management Studies

1 must be chosen from Educational. Social and Developmental Studies

(ii) The remaining six subjects will normally be chosen from those listed as being relevant and available in the Schools of Community Medicine, Medical Education and Health Administration. Two of the six subjects may be independent Studies in any of the three Schools (79,100G, 78,000G, 16.922G).

(iii) The total program of each student must be approved by the Master of Public Health Degree Committee which will be the final arbiter of course content. There are some constraints upon the choice available. For example, unless students can demonstrate adequate background in the nominated areas. they must complete courses in epidemiology, quantitative methods and management.

A major project of contemporary public health significance is to be started, by the latest, on completion of six subjects and finished by the end of the course.

The following subjects are currently offered by the School of Community Medicine (79.), School of Medical Education (78.) and. School of Health Administration (16.), All subjects are assumed to be of equal credit value that is, two credit points.

Population and Methodological Studies

- 16.901G Quantitative Methods and Statistics 1
- 16,902G Quantitative Methods and Statistics 2
- 16.937G Research and Evaluation Methods
- 16.941G Epidemiology
- 16.942G Public Health
- 16.950G Computing Techniques for Health Services Research
- 79.511G Epidemiology 1
- 79.512G Epidemiology 2
- 78.127G Research in Education for the Health Professions 1

Health Issues Studies

16.922G Project (equivalent to Independent Studies)

- 78.000G Independent Studies
- 78.012G Current Approaches to Health Promotion
- 78.013G Influencing Health Beliefs and Health Behaviour
- 78.122G Primary Health Care
- 79.100G Independent Studies
- 79.600G Disability
- 79.601G Health of the Elderly
- 79.602G Health and Illness Behaviour
- 79.604G Alcohol and Drug Related Problems
- 79.605G Health in Developing Countries

Management Studies

- 16.904G Health Care Systems
- 16.907G Accounting and Financial Management
- 16.930G Health Service Planning 1
- 16.933G Health Services Law 1
- 16.935G Health Economics 1
- 16.970G Management A
- 16.971G Management B
- 78.104G Organization and Management for Health Personnel Education
- 78,111G Consultation Process

78.112G Management of Human Resources in Health

Educational, Social and Developmental Studies

- 16.981G Sociology, Ethics and Health
- 78.010G Understanding and Working in Communities
- 78.011G Practice in Developing Community Programs
- 78.102G Educational Process in Small Groups
- 78.108G Program Evaluation and Planned Change
- 78.125G Planning. Conducting and Evaluating Educational Workshops
- 79.603G Communications and Writing in Health
- 79.618G Ethics in Medicine and Community Health

School of Medical Education

The School offers programs of study leading to the awards of the degrees of Master of Health Personnel Education and Master of Public Health - either by research or by formal course work.

2885

Master of Health Personnel Education **By Research**

MHPEd

This course is designed for teachers and/or educational administrators in the health professions who wish to develop their research skills by undertaking studies leading to the award of the degree of Master of Health Personnel Education, either as full-time or part-time internal students or as students external to the University. (The latter are required to spend a minimum of 14 weeks in the School.)

An original investigation under the direction of a supervisor for a minimum period of three academic sessions in the case of a full-time candidate, or a minimum of four academic sessions in the case of a part-time or external candidate is required.

The candidate is required to submit a thesis embodying the results of the original investigation.

9000 Master of Health Personnel Education By Formal Course Work

MHPEd

The course is designed to further the competence of health personnel educators with particular regard to the health care needs of their respective countries. A major emphasis in the course is on student activity, individually and in small groups.

The Masters Degree Course requires either one year of full-time course work plus a six-month field project or two years of part-time course work plus a six-month field project. Students are required to undertake at least four of the nominated subjects listed below, plus additional academic electives and/or independent studies to give a total of 24 credit points. (Each credit point is equivalent to one class contact hour per week.)

Nominated Subjects

Session 1	H H	ours per week
78.101G	Learning and Teaching	2
78.102G	Educational Process in Small Grou	ps 2
78.103G	Instructional Design	2
78.104G	Organization and Management for	
	Health Personnel Education	2
78.106G	Teaching Skills	2
	-	10
Session 2	>	
78.105G	Curriculum Planning	2
78.107G	Assessment of Students	2
78.108G	Program Evaluation and Planned	
	Change	2
	•	6

Academic Electives

Electives are designed to enable candidates to pursue their own interests or specialties by taking subjects, normally at a graduate level, at The University of New South Wales. They are chosen by the student in consultation with the head of school. Elective subjects offered by the School of Medical Education are listed below. Electives may also be chosen from graduate subjects offered by other schools of the University, in which case the approval of the head of the school concerned must be obtained.

Session 1	Hours	per week
78.115G	Educational Selection	1
78.116G	Trends in Health Sciences Curricula	1
78.118G	Clinical Problem-solving	1
78.123G	Production of Audio Visual Materials	2
78.124G	Clinical Teaching	1
78.125G	Planning, Conducting and Evaluating	
	Educational Workshops	2
78.127G	Research in Education for the Health	
	Professions 1	2
Session 2	2	
78.111G	The Consultation Process	2
78.112G	The Management of Human Resources	2
78.113G	Evaluation of Instructors	2
78.117G	Explorations in Personal Learning	2

78.119G	Clinical Decision-making	1
78.121G	Large Group Teaching	2
78.122G	Primary Health Care	2
78.126G	Self-directed Learning	
	and Self-instruction	2
78.128G	Research in Education for the Health	
	Professions 2	2

78.109G Project

Candidates are required, in addition to formal course work, to complete a six-month field project and report. The project is planned during the period of formal course work and carried out in the student's home institution. It should focus on an area of health personnel education relevant to the candidate's professional interests and development and to the furthering of health personnel education.

Master of Public Health

Course details for 2845 Master of Public Health (By Research) and 9045 Master of Public Health (By Formal Course Work) are given on page 48.

The conditions for the award of the degree of Master of Public Health are set out under Conditions for the Award of Higher Degrees later in this handbook.

School of Paediatrics

5500 Diploma in Paediatrics

DipPaed

The course is normally taken over 1 year on a full-time basis.

It must be noted that the Diploma of Paediatrics is intended for graduates who have degrees registrable in Australia and who are able to secure a paediatric appointment, salaried or otherwise, in a teaching hospital recognised by The University of New South Wales. The School of Paediatrics takes no responsibility for making such arrangements.

Candidates are required to have an appointment in an approved children's hospital and should rotate through various paediatric specialities including neonatal paediatrics. However, candidates who have already had experience in clinical paediatrics under supervisors acceptable to the University may be exempted from the clinical experience and enrol as part-time students.

Studies in medicine including undergraduate studies do not readily conform to a sessional basis.

76.201G General Paediatrics 1
76.202G Prenatal and Perinatal Paediatrics
76.203G Child and Family Psychiatry
76.204G Clinical and Technical Skills
76.205G Clinical Paediatric Experience 1

Graduate Study

9010 Master of Paediatrics

MPaed

The course is designed for candidates aiming for a career in community paediatrics or paediatric general practice. Candidates are required to hold the Diploma of Paediatrics (refer to the entry earlier in this Handbook) or equivalent degree or diploma prior to enrolment in the course. The course requires 2 years professional experience in paediatrics, and at least 1 of these 2 years must be in professional activities of a community nature outside the hospital. Candidates with professional experience in paediatrics under supervisors acceptable to the University may be exempted from part or all of the professional experience required and may elect to enclored for the course while undertaking other professional duties. A feature of the second year permitting the development of a large number of special skills for future paediatric practice.

All of the following subjects are compulsory. The hours allocation is approximate:

Year 1

- 76.002G General Paediatrics 2
- 76.006G Organization of Health Services 1
- 76.008G Medical Statistics and
- Epidemiology
- 76.020G Clinical Paediatric Experience 2

Year 2

- 76.009G Community Pediatrics
- 76.030G Clinical Paediatric Experience 3

School of Psychiatry

9030

Master of Psychotherapy

MPsychotherapy

The course is designed to develop skills in the practice and evaluation of the range of psychotherapies, their theoretical underpinnings, their clinical applications and their researched effectiveness. The course is also designed to examine the ethical, socio-cultural, socio-political and economic issues relevant to the practice of psychotherapy. Supervised case work and experiential learning are major components of the course and are aimed at promoting an advanced level of clinical expertise in the area of specialization.

The masters degree program is a three year part-time course requiring the completion of 420 hours of course work over six sessions. Students are required to pass seven nominated subjects as well as complete academic electives. Additionally, in the final year, an elective project must be passed.

Nominated Subjects

- 77.001G Psychotherapy Theoretical bases, developmental theories and basic techniques
- 77.002G Psychotherapy Methodology and outcome
- 77.003G Psychodynamic Psychotherapies 1
- 77.004G Behavioural Psychotherapies
- 77.005G Family and Marital Psychotherapies
- 77.006G Cognitive and Other Psychotherapies

77.007G Advanced and Integrated Psychotherapy

Academic Electives

Students are required to undertake elective subjects in the third year of the course.

77.011G Psychodynamic Theories 2

- 77.012G Behavioural and Cognitive Psychotherapies
- 77.013G Family and Marital Psychotherapies 2

77.111G Elective Projects

The elective project, undertaken in third year, may be a research project, a major dissertation, or advanced case work. Each elective project must be approved by the Course Committee and the nominated supervisor.

.

~

Graduate Study

Subject Descriptions

Identification of Subjects by Number

A subject is defined by the Academic Board as 'a unit of instruction approved by the University as being a discrete part of the requirements for a course offered by the University'.

Each approved subject of the University is identifiable both by number and by name as this is a check against nomination of subject other than the one intended.

Subject numbers are allocated by the Academic Registrar and the system of allocation is based on the following guidelines:

1. The authority offering the subject, normally a School of the University, is indicated by the number before the decimal point.

2. Each subject number is unique and is not used for more than one subject title.

3. Subject numbers may not be re-used with a new subject title within ten years of the prior use.

4. Graduate subjects are indicated by a suffix 'G' to a number with three digits after the decimal point. In other subjects three or four digits are used after the decimal point.

Subjects taught are listed in full in the handbook of the faculty or board of studies responsible for the particular course within which the subjects are taken. Subject descriptions are contained in the appropriate section in the handbooks.

The **identifying numerical prefixes** for each subject authority are set out on the following page.

Servicing Subjects are those taught by a school or department outside its own faculty. Their subject descriptions are published in the handbook of the faculty which originates the subject and are also published in the handbook of the Faculty in which the subject is taught. The following pages contain descriptions for most of the subjects offered for the courses described in this book, the exception being the General Education subjects. For General Education subjects see the **General Studies Handbook** which is available free of charge.

HSC Exam Prerequisites

Subjects which require prerequisites for enrolment in terms of the HSC Examination percentile range, refer to the **1978 and subsequent Examinations.**

Candidates for enrolment who obtained the HSC in previous years or hold other high school matriculation should check with the appropriate school on what matriculation status is required for admission to a subject.

Information Key

The following is the key to the information which may be supplied about each subject:

S1 Session 1, S2 Session 2

F Session 1 plus Session 2, ie full year

S1 or S2 Session 1 or Session 2, ie choice of either session

SS single session, but which session taught is not known at time of publication

CCH class contact hours

- L Lecture, followed by hours per week
- T Laboratory/Tutorial, followed by hours per week

hpw hours per week

- C Credit point value
- CR Credit
- **DN** Distinction
- **HD** High Distinction

	School, Department etc *Subjects also offered for court	Faculty rses in this handbook		School, Department etc "Subjects also offered for cour	Faculty rses in this handbook
1	School of Physics	Science		Sabad of Migrabiology	Piological and
ż	School of Chemistry	Science	44	School of Microbiology	Behavioural Sciences
3	School of Chemical	Applied Science	45	Sebeel of Dialogical	Biological and
	Engineering and Industrial	, applied edicited	45		
	Chemistry (New Course)			Science	Benavioural Sciences
	School of Matoriale	Applied Science	46	Faculty of Applied Science	Applied Science
ł	School of Materials	Applied Science	47	Centre for Safety Science	Engineering
	Science and Engineering	Engineering	48	School of Chemical	Applied Science
•	School of Mechanical and	Engineening		Engineering and Industrial	•••
	Industrial Engineering	-		Chemistry (Old Course)	
)	School of Electrical	Engineering	40	School of Applied	Applied Science
	Engineering and		43	Disasianas (Frad Osianas and	
	Computer Science			Bioscience (Food Science and	a lechnology)
,	School of Mines	Applied Science	50	School of English	Arts
	(Mineral Processing and		51	School of History	Arts
	Extractive Metallurgy and		52	School of Philosophy	Arts
	Mining Engineering)		53	School of Sociology*	Arts
3	School of Civil	Engineering	54	School of Political	Arts
1	Engineering		04		rit to
	School of Eibre Science	Applied Science			Desferation 10th di
1	and Technology		55	School of Librarianship	Professional Studies
	Alloal and Animal Calanas		56	School of French	Arts
	(wooi and Animal Science)	0.1	57	School of Theatre Studies	Arts
)	School of Mathematics	Science	58	School of Education	Professional Studies
L	School of Architecture	Architecture	50	Department of Russian	Arts
2	School of Psychology*	Biological and		Studioe	, (16
		Behavioural Sciences			A
3	School of Fibre Science	Applied Science	60	racuity of Arts	Arts
	and Technology	•••	61	Department of Music	Arts
	(Textile Technology)		62	School of Science and	Arts
	Sebeel of Accounting	Commerce & Economics		Technology Studies	
•	School of Accounting	Commerce & Economics	63	School of Social Work	Professional Studies
2			C.4	School of Corman	Arte
5	School of Health	Professional Studies	04	School of German	A113
	Administration			Studies	
1	Faculty of Biological and	Biological and	65	School of Spanish and	Arts
	Behavioural Sciences	Behavioural Sciences		Latin American Studies	
}	School of Mechanical and	Engineering	66	Subjects Available from	
	Industrial Engineering			Other I Iniversities	
	(Industrial Engineering)		67	Enaulty of Salanaa	Salanaa
2	School of Information	Commerce & Economics	07	Faculty of Science	
1	Systems	Commerce à Economics	68	Board of Studies In	Board of Studies in
•	Contro for Potroloum	Applied Science		Science and	Science and
,		Applied Science		Mathematics	Mathematics
		A	70	School of Anatomy	Medicine
Í	Department of Industrial	Architecture	71	School of Medicine	Medicine
	Arts		70	School of Dethology	Medicine
5	School of Mines	Applied Science	12		mealighte
	(Applied Geology)		73	School of Physiology and	Mediciñe
5	Centre for Liberal	Liberal and General		Pharmacology	
	and General Studies	Studies	74	School of Surgery	Medicine
,	School of Geography	Applied Science	75	School of Obstetrics and	Medicine
2	School of Markating	Commerce & Economice		Gynaecology	· •
2	School of Supervise	Engineering	76	Sebool of Deedlatelee	Madicine
	School of Surveying		/0		meuicine Modiol
1	School of Industrial	Commerce & Economics	<u> </u>	SCHOOL OF PSyChiatry	
	Helations and		78	School of Medical	Medicine
	Organizational Behaviour			Education	
	School of Optometry	Science	79	School of Community	Medicine
2	Centre for Biomedical	Engineering		Medicine	
	Engineering		90	Faculty of Medicine	Medicine
	Faculty of Arts	Arts	00	Madialaa/Calanas/	Madiaina
	School of Building	Architecture	81	muchcine/Science/	mudicilie
	School of Town Planning	Architecture		Biological	
	School of Landerano	Architecture		Sciences	
			85	Australian Graduate	AGSM
		A		School of Management	· ·
)	Graduate School of the	Archilecture	00	Eaculty of Law*	1 204
	Built Environment		90		Law En sin e seiter
ļ	Academic Board		97	Faculty of Engineering	Engineering
	School of Biochemistry	Biological and	98	School of Banking	Commerce & Economic
	······,	Behavioural Sciences		and Finance	
				· · · · · · ·	O
	School of Applied	Applied Science	QQ	Department of Legal	Commerce & Economia

Anatomy

Servicing Subject

This is a subject taught within a course offered by another faculty.

For further information regarding the following subject see the Engineering Handbook.

70.201G Introductory Functional Anatomy

An overview of basic human anatomy and physiology with an emphasis on structures and systems such as the eye, ear and skin, which are most vulnerable to chemical and physical trauma under industrial conditions. Other systems studied include the musculo skeletal system, central and peripheral nervous systems, circulatory, respiratory, gastrointestinal, endocrine and urogenital systems

Pathology

Servicing Subject

This is a subject taught within a course offered by another faculty.

For further information regarding this subject see the Faculty of Engineering Handbook and the Combined Sciences Handbook.

72.402G Principles of Disease Processes S1 L3 C3

Prerequisites: 73.111 or equivalent, 70.011C or equivalent.

The reaction of cells to injury, the inflammatory reaction; necrosis-vascular changes and infarction; reparative processes; fracture healing; neoplasia; reaction to implants; specific processes requiring prosthetic assistance.

Paediatrics

76.201G General Paediatrics 1

Growth and development. Systemic diseases in childhood. Prevention and early detection. Community services available for the care of children with various disorders. Emphasis is placed on the understanding of principles, especially physiological principles.

76.202G Prenatal and Perinatal Paediatrics

Prenatal development and prenatal and perinatal experiences, which affect the growing foetus and infant. Necessary professional supervized experience is obtained by clinical attachment to appropriate hospitals. Candidates are given increasing professional responsibility. There are lectures, seminars, discussion groups and demonstrations on manikins.

76.203G Child and Family Psychlatry

Family dynamics and family interactions in the causation of developmental, behavioural and emotional problems in children. Students without adequate clinical experience have a clinical attachment in paediatric psychiatry during the first two years of training. There are lectures, seminars, case conferences and assignments.

76.204G Clinical and Technical Skills

Taking of medical histories, physical examination and technical procedures. Supervized professional attachments provide opportunities for learning these skills. Candidates obtain experience in diagnostic thinking and planning management. Some of the teaching is on an individual basis and some in groups.

76.205G Clinical Paediatric Experience 1

Candidates are required to gain twelve months clinical experience in an approved childrens' hospital rotating through various specialties including neo-natal. (Exemptions may be granted if supported by appropriate references.)

76.002G General Paediatrics 2

Includes medical emergencies, chronic diseases and team work, especially work with health professionals other than medical graduates. As well as lectures, seminars, demonstrations and discussion groups there are supervized professional experiences involving increasing professional responsibility.

76.006G Organization of Health Services 1

Candidates study the resources available in the community to help children with a variety of disabilities.

76.008G Medical Statistics

Learning in the undergraduate course is consolidated and candidates analyse material presented to them, particularly material encountered in journal reading.

76.020G Clinical Paediatric Experience 2

As for 76.205G and 76.030G

76.009G Community Paediatrics

Evaluation and care of children in the community especially children with physical and mental handicaps. Intends to embrace problems not frequently encountered in hospitals. May include attachments to centres outside the metropolitan area of Sydney.

76.030G Clinical Paediatric Experience 3

Candidates are required to gain professional experience of a community nature outside of the general hospital environment. Because of the wide variety of appropriate appointments, candidates are advised to discuss proposed activities with the course co-ordinator.

Psychiatry

77.001G Pyschotherapy – Theoretical Bases, Developmental Theories and Basic Techniques

Psychotherapy will be presented as the treatment of psychological, psychiatric or behavioural distrubance by methods which rely chiefly upon the interaction of therapist and patient. Generally these procedures rely upon the thoughts, feelings and/or behaviour patterns of an individual or of a group or family members. Very often the relationship between the therapist and patient is crucial to the therapy, or the patient's behaviour is viewed in an interpersonal context.

Students will trace the historical value of the various psychotherapies, focussing on four major strands identified in this course: psychodynamic, behavioural, family and marital, cognitive and other psychotherapies.

Psychotherapy as a multidisciplinary and multimodal procedure with the emphasis on clinical experience and application, as well as outcome research. Basic psychotherapeutic techniques will be studied and practised. Students will also examine the various theoretical underpinnings of psychotherapy, its socio-political and socio-cultural contexts, its relationship to medicine and other disciplines and issues of cost effectivess.

Developmental theories will be reviewed as they pertain to the understanding and the practice of psychotherapies including the psychological development of the individual and the family. Various models of human development will be considered, the behavioural, social learning and family systems models. The emphasis will be upon data derived from developmental studies of individuals and of families.

77.002G Psychotherapy – Methodology and Outcome

Students will review historical developments in psychotherapy research and the extent to which current research methods may provide data on the efficacy of separate treatments. Confounding issues (e.g. natural remission), non-specific therapy ingredients (e.g. characteristics of the therapist) and contextual issues will be examined, both as issues affecting the course of outcome and as to how they may be evaluated and analysed in outcome research.

Broad outcome data examining the overall effectiveness of psychotherapy will be reviewed, both in the short-term and in the long-term, and the extent to which it may provide symptom relief and behavioural/personality change, as well as the effectiveness of the particular psychotherapies for particular conditions.

77.003G Psychodynamic Psychotherapies 1

The psychodynamic psychotherapies are those derived from Freudian or psychoanalytic theory. Three major streams will be studied:

Freudian metapsychology and its derivatives; Object-Relations theory and its derivatives; Self-Psychology school and its derivatives. Emphasis will be upon clinical application and upon practical psychodynamic approaches to psychotherapy and particularly the brief therapies.

77.004G Behavioural Psychotherapies

The emphasis will be upon the selection and application of the various behavioural therapies for specific conditions. Information will be included on the use of desensitization techniques; exposure and anxiety management in anxiety disorders; response prevention in obsessive-compulsive neurosis; treatment of sexual dysfunction and the use of aversive techniques; the behavioural/cognitive treatment of depression; the place of behavioural treatments in the management of schizophrenia, substance abuse, marital difficulties, eating disorders and in interpersonal skills training.

77.005G Family and Marital Psychotherapies 1

Students will focus upon psychological or psychiatrtic disturbance in the context of intrafamilial or interpersonal relationships, and address symptomatic dysfunction directly aiming at briefer, more active treatment programs. The theories behind these therapies will be studied and an overview of the several theoretical orientations (e.g. systemic, structural and strategic) will be given. An emphasis will be upon the acquisition of practical skills.

77.006G Cognitive and Other Psychotherapies

Students will develop an overview of several other streams of psychotherapy which do not fit easily into the three major streams. These include: Cognitive and Interpersonal Therapies, Jungian Analytical Psychology, Existentialism, and the various psychotherapies which have been subsumed under the title of The Humanist Therapies'. The theoretical issues and the interrelationships of these modalities will be studied with an emphasis upon clinical applications and practical skills.

77.007G Advanced and Integrated Psychotherapy

In the final weeks of the third year, after working on their elective subjects, students will attend joint seminars and critically compare their work. This subject will offer an integrated approach to psychotherapy by examining each of the major psychiatric syndromes and delineating the treatment or the combination of treatment approaches which have been shown to be most effective. The use of multimodal, multidisciplinary psychotherapies will be illustrated (e.g. as in the management of Anorexia Nervosa which may require a behavioural in-patient program, family therapy, and ongoing individual psychotherapy). Students will have an opportunity to share their expertise and to plan co-operative treatment regimes.

77.011G Psychodynamic Psychotherapies 2

Students will focus in Year 3 upon the refinement of technical skills in the practice of these psychotherapies: making contracts, forging therapeutic alliance, utilizing transference and counter-transference phenomena, dealing with negative therapeutic reactions and with termination of therapy. The emphasis will be upon clinical effectiveness and upon the most practical and cost-effective therapies and the brief psychotherapies.

77.012G Behavioural and Cognitive Psychotherapies

The cognitive and behavioural therapies will be studied in greater depth and students will refine their clinical skills in the

application of these therapies to specific conditions, emphasizing critical evaluation of outcomes and examining evidence concerning mode of action. Methodological and therapeutic limitations will be identified and possibilities for overcoming them. The nature of assessment and the value of techniques of assessment will be studied as well as the variables influencing response to therapy and how these variables can be conceptualized, assessed and modified.

77.013G Family and Marital Psychotherapies 2

Students will focus upon acquiring technical skills in the practice of these therapies. There will be an emphasis upon experiential learning with live interviews, video-taped interviews and role-plays. Students will aim at achieving proficiency in these methods of treatment.

Medical Education

Health Personnel Education 78.000G Independent Studies

Independent studies are designed to provide opportunities for candidates to pursue interests and areas not adequately addressed in existing subjects. They are recommended particularly for candidates who wish to explore solutions to specific educational problems within their own institutions or disciplines.

78.010G Understanding and Working S1 L2 in Communities

An Academic Elective

Overview of determinants of community processes and activities. Health of individuals viewed in relation to concepts from the following disciplines: ecology, anthropology, sociology, psychology, economics, political science, etc. Principles behind community development and participation.

78.012G Practicum in Developing S2 T2 Community Projects

An Academic Elective

Participants design and participate in a project related to community health development in an area geographically close to the University of NSW.

78.012G Current Approaches to S1 L2 Health Promotion

An introduction to the concept of health promotion as a major component of primary health care. A theoretical framework provides the basis for an overview of the various approaches used to promote health, and allows consideration of which option to choose in different situations.

78.013G Influencing Health Beliefs S2 L2 and Health Behaviours

Consideration of behaviour change theories. Description of the processes whereby values and beliefs determine the way individuals behave; the effects of acute and chronic illness, or risk of illness on beliefs and behaviours related to health. Current interventions models which seek to influence these beliefs and behaviours.

78.014G Communication and Educational S2 L2 for Community Health Workers Skills

Emphasis on the specific communication and education skills required by health professionals working in community settings. Application of small group teaching and experiential learning approaches including interactive experiences, simulations, role plays, problem-solving exercises and opportunistic teaching methods.

78.101G Learning and Teaching

S1 L2

S1 L2

Focuses on the conditions which are necessary for learning and the responsibilities these imply for teaching. Stages of the process are outlined and the important factors in learning are developed within this framework. Problem-based, involving participation in workshops organized around common problems in teaching and learning. Integrates with 78.103G.

78.102G Educational Process in Small Groups

How people operate as members and leaders of groups; conditions underlying effective group work in educational planning, teaching and learning, and the provision of health care; basic concepts of group structure. Stress on experiential learning, observation of group process, improving skills in facilitating group learning and designing appropriate learning activities.

78.103G Instructional Design S1 L2

Application of skills and knowledge gained in 78.101G and the development of the ability to design instruction which is optimal for various learning objectives and conditions. Critical variables in instruction are identified and discussed in relation to their implications for design of instruction. A series of workshops dealing with the design of instruction for various learning environments in the health field.

78.104G Organization and Management for Health Personnel Education S1 L2

Students critically examine existing organizational patterns relevant to health personnel education. Emphasis is placed on the participants' experiences as members of organizations and the effect of organizations on their individual performance. Description and analysis of participants' own organizations to identify strengths, operational problems and developmental possibilities with emphasis on managerial roles.

78.105G Educational Planning

S2 L2

Builds on the competency based model of instructional development introduced in 78.103G but looks at alternative approaches to curriculum planning; considers the factors leading to developments in curricula for the health professions, and the methods by which changes have been introduced. Emphasis on a number of institutional case studies from different health professions; the processes used in making decisions between curriculum options for new courses and in introducing changes into existing courses.

78.106G Teaching Skills

S1 L2

The practical aspects of teaching methods. Problems experienced by the candidates in their own situations. Certain theories and principles of learning as they apply to the various teaching methods studied. Emphasis is on microteaching (reinforcement, questioning, explaining).

78.107G Assessment of Students S2 L2

The process, scope and purpose of educational evaluation. The place of student assessment within the curriculum and the concept of measurement and its requisites, leading to a review of the different types of assessment commonly used by participants to assess student learning in all its domains. The practical aspects of the designing, administration and scoring of such assessments, and attempts to identify ways of improving such procedures. The assessment of clinical performance on prescribed tasks, on tasks involving judgement, and in clinical practice involving priorities, management and responsibility. The utilization of test scores and other assessment data in educational decision-making.

78.108G Program Evaluation and S2 L2 Planned Change

Designed to help participants develop skills in planning, conduct and evaluation of educational programs. Includes: preparation of a detailed proposal for evaluation of a program; various decisions and activities undertaken in program evaluation; processes of innovation and change.

78.109G Project

Provides an opportunity for the candidate to focus on an area of health personnel education relevant to the candidate's professional interests and development and to the furthering of health personnel education.

78.110G Workshop in Culture, Subculture S1 L2 and Communication S1 L2

An Academic Elective. How culture controls thinking and behaviour and the meaning attached to the behaviour of others in professional/client and teacher/learner situations. The multicultural group of health professionals dealing with education uses its own intercultural experiences to reveal difficulties in communication and learning related to different teaching formats and styles, and studies the relationship between subculture and health beliefs, including the subculture of the health professions, and the relationship of health, illness and solutions to culture and subculture.

78.111G The Consultation Process

S2 L2

Recommended Prerequisite: 78.104G or equivalent. Co-requisites: 78.108G, 78.113G, 78.112G

An Academic Elective. The subject is designed to introduce concepts and practical approaches used by consultants in the development of organisations, programs, teams and individuals. The subject will focus on the internal process of change as well as on 'third party' interventions.

78.112G The Management of Human Resources S2 L2

Recommended Prerequisite: 78.104G or equivalent. Recommended Co-requisite: 78.108G

The subject is designed to introduce concepts and practices pertaining to the management of human resources. Particular

attention will be given to the integration of human and other resources in management and planning. The influence of social values and beliefs on the way that human resources are managed will also be considered.

S2 L2

S1 L1

78.113G Evaluation of Instructors

An Academic Elective. This seminar pertains to concepts, research and development in the evaluation of instructors. Emphasis on the methods by which evaluative feedback could be provided and used for the purpose of improvement of instruction. It is expected that candidates would acquire skills in the design and use of evaluation instruments which are effective in improving instruction.

78.115G Educational Selection S1 L1

An Academic Elective. Aims to introduce participants to problems in selection of students into educational institutions. Includes definition of criteria, measurement of factors other than high school performance and establishing relationships between selection measures and performance criteria. Reviews attempts elsewhere to expand selection methods. Includes: formal selection procedures (job analysis and definition of competencies, predictor and criteria developments, methods of validation); common instruments used for selection in the medical and health fields; development and use of attitude measurements; problems of cross-cultural transfer of selection measures; and innovations in selection for medical education.

78.116G Trends in Health Sciences Curricula S1 L1

An Academic Elective. Supplements 78.105G Curriculum Planning. Trends in health sciences curricula such as integrated curricula, emphasis on community medicine, introduction of social and behavioural sciences, elective programs, early patient contact, nutrition education, problem-solving approaches and accelerated programs. Particular trends studied depend on interests of participants. Literature review in a circumscribed area, dealing with the nature of the trend, factors which determine it, its advantages and disadvantages, and pitfalls in implementation. Discussion of specific case studies and personal experience.

78.117G Explorations in Personal Learning \$2 L2

An Academic Elective. Theoretical and practical aspects of adult learning with the aim of relating research findings to the practicalities of teaching undergraduates. Stress on the exploration of the group's own prior learning experiences and individual responses to classroom events. Aims mainly to increase each participant's understanding of the major factors involved in adult learning and to apply this to their own teaching activities, with some stress on the nature of the connections between teaching and learning and the skills required to monitor teaching activities. Topics include: learning environments, the role of the emotions, motivation, the influence of assessment, the effects of different teaching styles, teacher and course characteristics.

78.118G Clinical Problem Solving

An Academic Elective. How clinicians sort out illness situations, explore problems, interpret unreliable data and classify an illness as a disease diagnosis. The structure of clinical problems and of clinical memory, diagnostic strategies, effectiveness and efficiency, investigation and the value of information, Bayesian calculation, and the nature of clinical judgement. Clinical, educational and research implications of empirical studies of professional/client interaction.

78.119G Clinical Decision Making

An Academic Elective. Rational choice in investigation and management of clinical problems. Calculation of value of tests, assessing their effectiveness and efficiency, choosing 'next best test', calculating likelihoods of diagnoses, confidence, risk-taking, estimating likely outcomes and their importance, decision analysis, expected utility, subjective and objective probabilities, threshold influences, optimizing or satisficing, minimax and maximax approaches, judgement.

78.121G Large Group Teaching

S2 L2

S2 | 1

An Academic Elective. The process of explaining considered central to large group teaching; analysis of this process, dealing with the qualities and components of effective explaining. The types of lectures ranging from didactic to inductive, and the various ways in which lectures are structured, leading to an examination of the relationship between lecturing and learning. Strategies for improvement of lectures, and alternatives to lectures.

78.122G Primary Health Care

S2 L2

S1 L2

The concept of primary health care and its emergence as the priority health care approach in developing countries. Emphasis on the training implications of primary health care programs together with different definitions of the concept including the role of primary health care in social and economic development, and its relationship to existing health care systems.

78.123G Production of Audio Visual Materials

An Academic Elective. The use of audio visual materials and equipment; production of software (charts, transparencies, slides, film, videotape and audiotape); principles guiding the selection of teaching aids for self-paced learning, teaching in small groups and large group presentation. A major requirement for assessment is the selection and preparation of instructional media appropriate to a specific teaching situation in the participant's base institution.

78.124G Clinical Teaching

S1 L1

An Academic Elective. Drawing upon real life clinical practice and observing teaching sessions of their own, their peers and others, participants have the opportunity to explore the nature of clinical teaching and learning in selected programs, and to identify ways of improving teaching skills and maximising students' learning. Research in clinical teaching and it relation both to educational theory and to current practice.

78.125G Planning, Conducting and S1 L1 Evaluating Educational Workshops

In an attempt to develop their skills in all aspects of conducting workshops, participants are guided to formulate a plan for workshop for their colleagues in an important educational area, with opportunity to practise various techniques for enhancing active participation, and subsequently to conduct the workshop, evaluate its process and outcomes, and report on it.

78.126G Self Directed Learning S2 L2 and Self Instruction

An Academic Elective. Options which are available for the teacher to assist students to develop skills in self education. Requires students to undertake self directed study and to negotiate a learning contract with the instructor. Topics may include: adapting instruction to individual differences, principles and practices of self instruction, applying self directed learning in traditional courses, and contexts for informal learning such as continuing education, in-service training and distance education.

78.127G Research in Education for the S1 L2 Health Professions 1

Enables participants to become aware of 'ways of knowing', in general, and of the scientific method in particular. Different methods of educational research examined in depth so that the method(s) most appropriate to given research problems can be selected. Participants develop skills in evaluating research papers exemplifying the different methods.

78.128G Research in Education for the S2 L2 Health Professions 2

Prerequisite: 78.127G or equivalent.

An Academic Elective. Raises awareness of current research interests in education for each of the health professions from which participants come and of the problems encountered in conducting an educational research project. Participants are expected to plan, conduct and report a pilot project in education.

Community Medicine

79.100G Independent Studies

Independent studies are designed to provide opportunities for candidates to pursue interests and areas not adequately addressed in existing subjects. They are recommended particularly for candidates who wish to explore specific community health problems within their own communities or areas.

79.511G Epidemiology 1 (Methodology)

Sampling and sample size determination, common sources of bias, statistical and data distributions, data display, life tables, standardisation methods, testing means and proportions, contingency tables and goodness of fit tests, simple regression and correlation, multiple regression and discriminative analysis, analysis of variances, interpretation of data and concepts of causality.

79.512G Epidemiology 2 (Practice)

Critical evaluation of research, literature and practical research skills. Research methods, survey, retrospective and prospective studies, randomised controlled trials, research and analysis. Collecting, coding and analysing data, and applying computer methods in research. prepares students for subsequent work on their selected research topic for their project. Application of methods to health programs, such as preparing objectives, planning a data base, data collection and analysis, criteria for evaluation, education and training of personnel.

79.503G Research Planning

Using the knowledge and techniques acquired in Epidemiology, students prepare and present for their research project. Students critically evaluate model research plans and the projects proposed by other students in the course.

Electives

79.600G Disability

Epidemiology of disabling physical and mental conditions; the nature of disability and handicap (including developmental disability); perceptions of handicap; disabled persons' consumer movement and organisation; sociology of disability; social inequality and disability; rehabilitation; community and specialist rehabilitation services; relevant legislation, government services, special needs of disabled persons – health accommodation and the physical environment, transport, work, income support, legal rights and public policy.

79.601G Health of the Elderly

Demography of ageing; epidemiology of health, illness and disability in an ageing population; 'aged persons' perspectives; gerontology – biological, sociological and psychological perspectives; problems and special needs of an ageing population; health maintenance; health policy for an ageing population; health services; institutional care; community and domiciliary services; non-government organisations; poverty; community attitudes; accommodation; income support; social and ethical issues.

79.602G Health and Illness Behaviour

Self-care, personal health action and help-seeking behaviour; attitudes and beliefs about health and illness; media influences and sources of health advice; the media and public health; coping with illness, stress, anxiety, loss or bereavement; the sick role; expectations of health care; counselling techniques; doctor-patient communication; psychological, social and ethnic factors influencing health behaviour; health education and promotion; community mental health; rehabilitation; concepts and strategies.

79.603G Communications and Writing in Health

Writing and preparation for the media; preparation of material for health education and promotion, including audiovisual material; preparation of scientific papers, reports and theses; practical skills in planning and writing articles: logical organisation, clear and concise scientific prose; presentation of data and overall layout.

79.604G Alcohol and Drug Related Problems

Concepts of drug dependence, including pharmacological aspects; management of these problems in primary care; rehabilitation programmes, smoking cessation; weight control; social and psychological factors and their impact on the family; drug problems and their impact on the community; public health aspects; population indices and surveillance; control programmes; legislation; law enforcement; medical and legal aspects of drug dependence.

79.605G Health in Developing Countries

Economic, demographic and epidemiological aspects; communicable diseases, for example, diarrhoea and parasitism, chronic diseases including mental health in the Third World context; maternal and child health; family planning; nutrition, and food and nutrition policy; breast feeding promotion; immunisation; water supply and environmental sanitation; organisation of health services; primary health care; health personnel training; health education; pharmaceutical problems; role of international and non-governmental agencies; self-reliance.

79.606G Women and Health

Current issues relevant to the health of women, both consumer and provider perspectives. Common health risks facing women. Special needs in health and health care for particular populations of women. Traditional role of women as health carers, and the impact this has on health and health services. Short lectures, group discussions and student presentations. Assessment is a combination of marks given in written tutorial papers, end of session essay and group facilitation and class participation.

79.607G Researching Womens Health

Examines the socio-cultural aspects of women's health. Emphasis will be on reading and critically examining recent social, behavioural science, public health and primary care literature. Case studies will be used to look at determinants of women's health, woman and health care systems, promoting women's health, and woman and disability.

S2

79.616G Occupational Epidemiology S1 L3 C3

Prerequisite: 16.901G or equivalent. Prerequisite or co-requisite: 80.701G or equivalent.

Epidemiology – the narrow sense, historical development. Genes and environment in human variation. Basic demography. Perceptions of 'disease' - professional and lay. Sources of data in occupational epidemiology. Survey design and applications. Screening. Recording of data - graphical, tabular, parametric. Registers. Computer hardware and software in occupational epidemiology. Bias and its control. Confounding factors. Morbidity, mortality, life tables. Analysis of epidemiological data. Interpretation of results. Quantification of risk. Investigation of observed associations. Causation.

79.617G Occupational Medicine Practice F C6

Prerequisite: Approved medical degree, 80.702G and 79.616G or equivalent

Provides experiential learning for those medical graduates undertaking the MSafetySc course who intend to join the College of Occupational Medicine. Students visit industrial sites and centres for occupational health control. A comprehensive series of reports on investigations at these visits is required. It is expected that this subject will be taken towards the end of the MSafetySc course.
79.618G Ethics in Medicine and Community Health

Principles and theories of medical ethics are examined in relation to current ethical issues in medicine and community health. Topics include ethical issues in: artificial birthing techniques; resource allocation; termination of life sustaining treatment; drug and alcohol provision and treatment; human experimentation and epidemiological research; aboriginal health care research and delivery; and accountability of health professionals.

Reading is required in preparation each week. The subject is conducted by seminar in which invited speakers give a brief presentation and students contribute from their reading. Assessment is based on student presentation on 2 or 3 of the seminar topics and an end of session essay.

Faculty of Medicine

Servicing Subjects

These are subjects taught within courses offered by other faculties.

For further information regarding the following subjects see the Faculty of Engineering Handbook.

80.701G Occupational Disease

S2L3 C3

Prerequisite:70.201G or equivalent.

Physical environment and disease: Musculoskeletal system, physical trauma; heat and cold, burns, electric shock; radiation; pressure, vibration, noise, hearing. Chemical environment and disease: Metallic poisons, toxic compounds, gaseous poisons, carcinogens, allergens. Microbial environment and disease.Systems approach: Gastrointestinal tract; renal system; central and peripheral nervous systems; visual system, respiratory system, airbone particulates; skin.

80.702G Occupational Health Control S1L3 C3

Prerequisite: 80.701G or equivalent.

Introduction; dose response; risk, codes of safe practice; protection of the worker; design of safe workplace; protective equipment; occupational health surveillance; epidemiology; occupational safety program; emergency arrangements; environmental health; non-occupational safety; safety services.

Medicine

.

.

.

Graduate Study Conditions for the Award of Higher Degrees

Rules, regulations and conditions for the award of first degrees are set out in the appropriate Faculty Handbooks.

For the list of undergraduate courses and degrees offered see Faculty (Undergraduate Study) in the Calendar.

The following is the list of higher degrees and graduate diplomas of the University, together with Higher Degrees the publication in which the conditions for the award appear.

For the list of graduate degrees by research and course work, arranged in faculty order, see Table of Courses (by faculty): Graduate Study in the Calendar.

For the statements Preparation and Submission of Project Reports and Theses for Higher Degrees and Policy with respect to the Use of Higher Degree Theses see later in this section.

Title	Abbreviation	Calendar/Handbook	
Doctor of Science	DSc	Calendar	Higher Degrees
Doctor of Letters	DLitt	Calendar	
Doctor of Laws	LLD	Calendar	
Doctor of Medicine	MD	Calendar Medicine	
Doctor of Philosophy	PhD	Calendar and all handbooks	
Master of Applied Science	MAppSc	Applied Science	
Master of Architectural Design	MArchDes	Architecture	
Master of Architecture	MArch	Architecture	
Master of Archives Administration	MArchivAdmin	Professional Studies	
Master of Arts	MA	Arts University College	
Master of Biomedical Engineering	MBiomedE	Engineering	
Master of Building	MBuild	Architecture	
Master of the Built Environment	MBEnv	Architecture	

Medicine

	Title	Abbreviation	Calender/Handbook
Higher Degrees	Master of the Built Environment (Building Conservation)	MBEnv	Architecture
(continued)	Master of Business Administration	MBA	AGSM
	Master of Chemistry	MChem	Sciences*
	Master of Cognitive Science	MCogSc	Arts
	Master of Commerce (Honours)	MCom(Hons)	Commerce
	Master of Commerce	MCom	Commerce
	Master of Community Health	MCH	Medicine
	Master of Construction Management	MConstMgt	Architecture
	Master of Education	MEd	Professional Studies
	Master of Educational Administration	MEdAdmin	Professional Studies
	Master of Engineering	ME	Applied Science Engineering University College
	Master of Engineering without supervision	ME	Applied Science Engineering
	Master of Engineering Science	MEngSc	Engineering Applied Science University College
	Master of Environmental Studies	MEnvStudies	Applied Science
	Master of Health Administration	MHA	Professional Studies
	Master of Health Personnel Education	MHPEd	Medicine
	Master of Health Planning	MHP	Professional Studies
	Master of Industrial Design	MID	Architecture
	Master of Landscape Architecture	MLArch	Architecture
	Master of Landscape Planning	MLP	Architecture
	Master of Laws	LLM	Law
	Master of Librarianship	MLib	Professional Studies
	Master of Mathematics	MMath	Sciences*
	Master of Management Economics	MMgtEc	University College
	Master of Music	MMus	Arts
	Master of Nursing Administration	MNA	Professional Studies
	Master of Optometry	MOptom	Sciences*
	Master of Paediatrics	MPaed	Medicine
	Master of Physics	MPhysics	Sciences*
	Master of Project Management	MPM	Architecture
	Master of Psychology (Applied)	MPsychol	Sciences§
	Master of Psychology (Clinical)	MPsychol	Science§
	Master of Psychotherapy	MPsychotherapy	Medicine
	Master of Public Health	МРН	Medicine
			Professional Studies
	Master of Safety Science	MSafetySc	Engineering
	Master of Science	MSc	Applied Science Architecture Engineering Medicine Sciences*§ University College
	Master of Science without supervision	MSc	Applied Science Architecture

.

Graduate Study: Conditions for the Award of Higher Degrees

Title	Abbreviation	Calender/Handbook	
Master of Science without supervision (cont.)	Engineering Medicine Sciences*§ University College	
Master of Science (Acoustics)	MSc(Acoustics)	Architecture	
Master of Science (Industrial Design)	MSc(IndDes)	Architecture	
Master of Science and Society	MScSoc	Arts	
Master of Social Work	MSW	Professional Studies	
Master of Statistics	MStats	Sciences*	
Master of Surgery	MS	Medicine	
Master of Surveying	MSurv	Engineering	
Master of Surveying without supervision	MSurv	Engineering	
Master of Surveying Science	MSurvSc	Engineering	
Master of Town Planning	MTP	Architecture	
Master of Welfare Policy	MWP	Professional Studies	
Graduate Diploma	GradDip DipPaed DipEd	Applied Science Architecture Engineering Sciences*§ Medicine Professional Studies	Graduate Diplomas
	DipIM-ArchivAdmin DipIM-Lib DipFDA	Sciences*	

*Faculty of Science. §Faculty of Biological and Behavioural Sciences.

1. The degree of Doctor of Philosophy may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty or board (hereinafter referred to as the Committee) to a candidate who has made an original and significant contribution to knowledge.

2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor with Honours from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee

(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment as a candidate for the degree.

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed and form which shall be lodged with the Academic Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.

(2) In every case, before permitting a candidate to enrol, the head of the school in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:

(a) full-time attendance at the University;

(b) part-time attendance at the University.

(4) A full-time candidate shall be fully engaged in advanced study and research except that the candidate may undertake not more than five hours per week or a total of 240 hours per year on work which is not related to the advanced study and research.

(5) Before permitting a part-time candidate to enrol, the Committee shall be satisfied that the candidate can devote at least 20 hours each week to advanced study and research for the degree which (subject to (8)) shall include regular attendance at the school* on an average of

* Or department where a department is not within a school or schools or departments where the research is being undertaken in more than one school or department.

Higher Degrees

Doctor of Philosophy (PhD) (under review) Qualifications

Enrolment and Progression

at least one day per week for 48 weeks each year.

(6) A candidate shall be required to undertake an original investigation on an approved topic. The candidate may also be required to undergo such assessment and perform such other work as may be prescribed by the Committee.

(7) The work shall be carried out under the direction of a supervisor appointed from the full-time academic members of the University staff

(8) The work, other than field work, shall be carried out in a school of the University except that the Committee:.

(a) may permit a candidate to spend not more than one calendar year of the program in advanced study and research at another institution provided the work can be supervised in a manner satisfactory to the Committee;

(b) may permit a candidate to conduct the work at other places where special facilities not possessed by the University may be available provided the direction of the work remains wholly under the control of the supervisor;

(c) may permit a full-time candidate, who has been enrolled as a full-time candidate for at least six academic sessions, who has completed the research work and who is writing the thesis, to transfer to part-time candidature provided the candidate devotes at least 20 hours each week to work for the degree and maintains adequate contact with the supervisor.

(9) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school* in which the candidate is enrolled and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

(10) No candidate shall be awarded the degree until the lapse of six academic sessions from the date of enrolment in the case of a full-time candidate or eight academic sessions in the case of a part-time candidate. In the case of a candidate who has had previous research experience the committee may approve remission of up to two sessions for a full-time candidate and four sessions for a part-time candidate.

(11) A full-time candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. A part-time candidate for the degree shall present for examination not later than twelve academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

4. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the investigation.

(2) The candidate shall give in writing to the Academic Registrar two months notice of intention to submit the thesis.

(3) The thesis shall comply with the following requirements .:

(a) it must be an original and significant contribution to knowledge of the subject;

(b) the greater proportion of the work described must have been completed subsequent to enrolment for the degree;

(c) it must be written in English except that a candidate in the Faculty of Arts may be required by the Committee to write a thesis in an appropriate foreign language;

(d) it must reach a satisfactory standard of expression and presentation;

(e) it must consist of an account of the candidate's own research but in special cases work done conjointly with other persons may be accepted provided the Committee is satisfied about the extent of the candidate's part in the joint research.

(4) The candidate may not submit as the main content of the thesis any work or material which has previously been submitted for a university degree or other similar award but may submit any work previously published whether or not such work is related to the thesis.

(5) Four copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees.

(6) It shall be understood that the University retains the four copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.

Examination

Thesis

5. (1) There shall be not fewer than three examiners of the thesis, appointed by the Academic Board on the recommendation of the Committee, at least two of whom shall be external to the University.

* Or department where a department is not within a school or schools or departments where the research is being undertaken in more than one school or department.

72

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:

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

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school*; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate be permitted to resubmit the thesis after a further period of study and/or research.

6. A candidate shall pay such fees as may be determined from time to time by the Council.

1. The degree of Doctor of Medicine by published work^{**} may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee) to a candidate who has made an original and meritorious contribution to some branch of medicine.

2. A candidate for the degree shall:

(1) hold the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales of at least five years standing; or

(2) hold the degrees of Bachelor of Medicine and Bachelor of Surgery or a qualification considered equivalent from a university other than the University of New South Wales with at least five years' standing and have been associated with the University of New South Wales or one of its teaching hospitals for a period of at least four years.

3. A candidate for the degree on the basis of published work shall lodge with the Academic Registrar an application together with:

(1) four copies (if possible) of the published work;

(2) any additional work, published or unpublished, that a candidate may wish to submit in support of the application;

(3) a declaration indicating those sections of the work, if any, that have been submitted previously for a university degree or other similar award.

4. Every candidate in submitting published work and such unpublished work as is deemed appropriate shall submit a short discourse describing the research activities embodied in the submission. The discourse shall make clear the extent of the originality of the work and the candidate's part in any collaborative effort.

5. There shall normally be three examiners of the work, appointed by the Academic Board on the recommendation of the Committee, at least two of whom shall be external to the University.

6. Before the work referred to in 3. (1), (2) above is submitted to the examiners the head of the appropriate school* shall certify that it is prima facie worthy of examination.

7. At the conclusion of the examination each examiner shall submit a concise report to the Committee on the merits of the published work and a recommendation as to whether the degree should be awarded. The examiners may require the candidate to answer orally or in writing any questions concerning the work.

8. A candidate shall be required to pay such fees as may be determined from time to time by the Council.

Fees

Doctor of Medicine (MD) by published work

[•] Or department where a department is not within a school or schools or departments where the research is being undertaken in more than one school or department.

^{**} In these rules, the term 'published work' shall mean printed as a book or in a periodical or as a pamphlet readily available to the public. The purpose of requiring publication is to ensure that the work submitted has been available for criticism. The examiners may disregard any of the work submitted if, in their opinion, it has not been available for criticism.

Doctor of Medicine (MD) <i>by thesis</i>	1. The degree of Doctor of Medicine by thesis may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee) to a candidate who has made an original and meritorious contribution to some branch of medicine.
Qualifications	2. (1) A candidate for the degree shall:
	(a) hold the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales at a level acceptable to the Committee; or
	(b) hold the degrees of Bachelor of Medicine and Bachelor of Surgery or a qualification considered equivalent from a university other than the University of New South Wales at a level acceptable to the Committee; or
	(c) in exceptional cases, submit such evidence of academic and professional attainments in support of the candidature as may be approved by the Committee.
	(2) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such examination or carry out such work as the Committee may prescribe, before permitting enrolment.
	(3) A candidate enrolled under 2. (1)(a) or (b) above shall not submit a thesis for the degree until the lapse of five years from the date of the award of the degrees mentioned therein.
	(4) A candidate enrolled under 2. (1)(c) above shall not submit a thesis for the degree until such period of time has elapsed since enrolment as the Committee shall decide at the time of approving enrolment.
Enrolment and Progression	3. (1) An application to enrol as a candidate for the degree by thesis shall be made on the prescribed form which shall be lodged with the Academic Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.
	(2) In every case, before permitting a candidate to enrol, the Committee shall be satisfied that adequate supervision and facilities are available.
	(3) An approved applicant shall be enrolled in one of the following categories:
	(a) full-time candidature: a candidate who is fully engaged in advanced study and research at the University or at one of its teaching hospitals;
	(b) part-time candidature: a candidate whose occupation leaves the candidate substantially free to pursue a program of advanced study and research at the University or at one of its teaching hospitals;
	(c) external candidature: a candidate who is engaged in advanced study and research away from the University or one of its teaching hospitals.
	(4) A candidate shall be required to undertake an original investigation on a topic approved by the Committee. The candidate may also be required to undergo such examination and perform such other work as may be prescribed by the Committee.
	(5) The work shall be carried out under the direction of a supervisor appointed by the Committee from the full-time academic members of the University staff.
	(6) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school* in which the candidate is enrolled and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.
	(7) No candidate shall be awarded the degree until the lapse of six academic sessions in the case of a full-time candidate or eight academic sessions in the case of a part-time or external candidate from the date of enrolment. In the case of a candidate who has been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery with honours or who has had previous research experience the Committee may approve remission of up to two sessions for a full-time candidate and four sessions for a part-time or external candidate.
	(8) A full-time candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. A part-time or external candidate shall present for examination not later than twelve academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.
Thesis	4. (1) A candidate shall submit a thesis embodying the results of the investigation.
	(2) If a candidate for the degree is not a graduate of the University of New South Wales the greater proportion of the work described must have been carried out in the University or in one of its teaching hospitals, save that in special cases the Committee may permit a candidate to conduct the work at other places where special facilities not possessed by the University may be available or where the subject of the research is uniquely located but only if the candidate

* Or department where a department is not within a school, or schools or departments where the research is being undertaken in more than one school or department.

Graduate Study: Conditions for the Award of Higher Degrees

spends such period of time within the University, and under such supervision, as may be determined by the Committee.

(3) A candidate shall give in writing to the Academic Registrar two months notice of intention to submit the thesis.

(4) The thesis shall comply with the following requirements.

(a) it must be an original and meritorious contribution to knowledge of the subject;

(b) it must be written in English and reach a satisfactory standard of expression and presentation;

(c) it must consist of the candidate's own account of the research; in special cases work done conjointly with other persons may be accepted provided the Committee is satisfied about the extent of the candidate's part in the joint research.

(5) A candidate may not submit as the main content of the thesis any work or material which has previously been submitted for a university degree or other similar award but may submit any work otherwise previously published, whether or not it is related to the thesis.

(6) The thesis shall contain a certificate signed by the candidate indicating specifically the extent to which the work embodied in the thesis is directly attributable to the candidate's own research and the extent to which the thesis has benefitted from collaboration with persons other than the supervisor.

(7) Four copies of 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.

(8) It shall be understood that the University retains the four copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis, in whole or in part, in photostat or microfilm or other copying medium.

5. (1) There shall be not fewer than three examiners of the thesis, appointed by the Academic Board on the recommendation of the Committee, at least two of whom shall be external to the University.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that;

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

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of school*; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) if the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee it may permit the candidate to re-present the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree.

6. A candidate shall pay such fees as may be determined from time to time by the Council.

1. The degree of Doctor of Medicine by thesis without supervision may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee) to a candidate who has made an original and meritorious contrisupervision bution to some branch of medicine.

2. A candidate for the degree shall hold the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales with at least five years standing at a level acceptable to the Committee.

3. An application to enrol as a candidate for the degree by thesis without supervision shall be made on the prescribed form which shall be lodged with the Academic Registrar not less than six months before the intended date of submission of the thesis. A graduate who intends to apply in this way should, in his or her own interest, at an early stage seek the advice of the appropriate school* with regard to the adequacy of the subject matter and its presentation for the degree. A synopsis of the work should be available.

* Or department where a department is not within a school, or schools or departments where the research is being undertaken in more than one school or department. Examination

Fees

Doctor of Medicine (MD) by thesis without supervision

Qualifications

Enrolment and Progression

4. (1) A candidate shall submit a thesis embodying the results of the investigation.

(2) A candidate shall give in writing to the Academic Registrar two months notice of intention to submit the thesis.

(3) The thesis shall comply with the following requirements:(

a) it must be an original and meritorious contribution to knowledge of the subject;

(b) it must be written in English and reach a satisfactory standard of expression and presentation;

(c) it must consist of the candidate's own account of the research; in special cases work done conjointly with other persons may be accepted provided the Committee is satisfied with the candidate's part in the joint research.

(4) A candidate may not submit as the main content of the thesis any work or material which has previously been submitted for a university degree or other similar award but may submit any work otherwise previously published, whether or not related to the thesis.

(5) The thesis shall contain a certificate signed by the candidate indicating specifically the extent to which the work embodied in the thesis is directly attributable to the candidate's own research and the extent to which the thesis has benefited from the collaboration with other persons.

(6) Four copies of 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. The candidate may also submit any work previously published whether or not such work is related to the thesis.

(7) It shall be understood that the University retains the four copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis, in whole or in part, in photostat or microfilm or other copying medium.

Examination

5. (1) There shall normally be three examiners of the thesis, appointed by the Academic Board on the recommendation of the Committee, at least two of whom shall be external to the University.

(2) Before the thesis is submitted to the examiners the head of the school* in which the candidate is enrolled shall certify that it is prima facie worthy of examination.

(3) After examining the thesis each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:

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

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of school*; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(4) If the performance at the further examination recommended under (3)(c) above is not to the satisfaction of the Committee it may permit the candidate to re-present the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.

(5) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree.

6. A candidate shall be required to pay such fees as may be determined from time to time by the Council.

Master of Community Health (MCH) by Research

Qualifications

Fees

1. The degree of Master of Community Health by research may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee) to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.

2. (1) A candidate for the degree shall:

(a) have been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee, or

(b) have been awarded an appropriate degree of Bachelor of at least four full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

* Or department where a department is not within the school or schools or departments where the research is being undertaken in more than one school or department e supervision and facilities are available.

(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee ius not satisfied with the qualifications submitted bby an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Academic Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.

(2) In every case, before permitting a candidate to enrol, the Head of the School of Community Medicine (hereinafter referred to as the head of the school) shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:

(a) full-time attendance at the University;

(b) part-time attendance at the University;

(c) external - not in regular attendance at the University and using research facilities external to the University.

(4) A candidate shall be required to undertake an original investigation on an approved topic. The candidate may also be required to undergo such assessment and perform such other work as may be prescribed by the Committee.

(5) The work shall be carried out under the direction of a supervisor appointed from the full-time academic members of the University staff.

(6) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

(7) No candidate shall be awarded the degree until the lapse of three academic sessions from the date of enrolment in the case of a full-time candidate or four academic sessions in the case of a part-time or external candidate. In the case of a candidate who has been awarded the degree of Bachelor with Honours or who has had previous research experience the Committee may approve remission of up to one session for a full-time candidate and two sessions for a part-time or external candidate.

(8) A full-time candidate for the degree shall present for examination not later than four academic sessions from the date of enrolment. A part-time or external candidate for the degree shall present for examination not later than eight academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

4. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the investigation.

(2) The candidate shall give in writing to the Academic Registrar two months notice of intention to submit the thesis.

(3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.

(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.

(5) Three copies of the thesis shall be presented in a form which compiles with the requirements of the University for the preparation and submission of theses for higher degrees.

(6) It shall be understood that the University retains the three copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.

5. (1) There shall be not fewer than two examiners of the thesis, appointed by the Academic Board on the recommendation of the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:

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

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school*; or

* Or department where a department is not within a school., or schools or departments where the research is being undertaken in more than one school or department. Enrolment and Progression

Thesis

Examination

Medicine

	(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or
	d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or
	(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.
	(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.
	(4) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.
Fees	6. A candidate shall pay such fees as may be determined from time to time by the Council.
Master of Community Health (MCH) by Formal Course Work	1. The degree of Master of Community Health by formal course work may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.
Qualifications	2. (1) A candidate for the degree shall:
	(a) have been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), or
	(b) have been awarded an appropriate degree of Bachelor of at least four full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.
	(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.
	(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.
Enrolment and Progression	3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Academic Registrar two calendar months before the commencement of the session in which enrolment is to begin.
	(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.
	(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.
	(4) No candidate shall be awarded the degree until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or four sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions from the date of enrolment for a full-time candidate and eight sessions for a part-time candidate. In special cases an extension of these times may be granted by the Committee.
Fees	4. A candidate shall pay such fees as may be determined from time to time by the Council.
Master of Health Personnel Education (MHPEd) by Research	 The degree of Master of Health Personnel Education by research may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee) to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.
Qualifications	2. (1) A candidate for the degree shall:
	(a) have been awarded an appropriate degree of Bachelor of four full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent

*Or department where a department is not within a school, or schools or departments where the research is being undertaken in more than one school or department.

from another university or tertiary institution at a level acceptable to the Committee, and

(b) have had the equivalent of at least two years full-time teaching and/or administrative experience of a kind acceptable to the Committee.

(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Academic Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.

(2) In every case, before permitting a candidate to enrol, the Head of the School of Medical Education (hereinafter referred to as the head of the school) shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:

(a) full-time attendance at the University;

(b) part-time attendance at the University;

(c) external – not in regular attendance at the University and using research facilities external to the University.

(4) A candidate shall be required to undertake an original investigation on an approved topic. The candidate may also be required to undergo such assessment and perform such other work as may be prescribed by the Committee.

(5) The work shall be carried out under the direction of a supervisor appointed from the full-time academic members of the University staff.

(6) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

(7) No candidate shall be awarded the degree until the lapse of three academic sessions from the date of enrolment in the case of a full-time candidate or four academic sessions in the case of a part-time or external candidate. In the case of a candidate who has been awarded the degree of Bachelor with Honours or who has had previous research experience the Committee may approve remission of up to one session for a full-time candidate and two sessions for a part-time or external candidate.

(8) A full-time candidate for the degree shall present for examination not later than six academic sessions from the date of enrolment. A part-time or external candidate for the degree shall present for examination not later than eight academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

4. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the investigation.

(2) The candidate shall give in writing to the Academic Registrar two months notice of intention to submit the thesis.

(3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.

(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.

(5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees.

(6) It shall be understood that the University retains the three copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.

5. (1) There shall be not fewer than two examiners of the thesis, appointed by the Academic Board on the recommendation of the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:

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

Enrolment and Progression

Thesis

Examination

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree. If is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.

Fees

6. A candidate shall pay such fees as may be determined from time to time by the Council.

*Or department where a department is not within a school or schools or departments where the research is being undertaken in more than one school or department.

Master of Health
Personnel Education
(MHPEd) by Formal
Course Work

1. The degree of Master of Health Personnel Education by formal course work may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

 Qualifications
 2. (1) A candidate for the degrees shall:

 (a) have been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), or

 (b) have been awarded an appropriate degree of Bachelor of at least four full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered

(or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

Enrolment and Progression
 3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Academic Registrar two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the degree until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or four sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions from the date of enrolment for a full-time candidate and eight sessions for a part-time candidate. In special cases an extension of these times may be granted by the Committee.

Fees

4. A candidate shall pay such fees as may be determined from time to time by the Council.

Master of Paediatrics 1. The degree of (MPaed) to a candidate w

1. The degree of Master of Paediatrics by formal course work may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

2. (1) A candidate for the degree shall:

(a) have been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), and

(b) have had at least one year's hospital experience subsequent to graduation of a kind acceptable to the Committee.

(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Academic Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewd at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the degree until the lapse of six academic sessions from the date of enrolment. The maximum period of candidature shall be eight academic sessions from the date of enrolment. In special cases an extension of time may be granted by the Committee.

4. A candidate shall pay such fees as may be determined from time to time by the Council.

1. The degree of Master of Psychotherapy by formal course work may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

2. (1) A candidate for the degree shall:

(a) have been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), and

b) have had at least three years full-time experience in a formal program of postgraduate study and practice of psychiatry or experience of a kind acceptable to the Committee.

(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Academic Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewd at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the degree until the lapse of six academic sessions from the date of enrolment. The maximum period of candidature shall be eight academic sessions from the date of enrolment. In special cases an extension of time may be granted by the Committee.

4. A candidate shall pay such fees as may be determined from time to time by the Council.

Qualifications

Enrolment and Progression

Fees

Master of Psychotherapy (MPsychotherapy)

Qualifications

Enrolment and Progression

Master of Public Health (MHP) by Research

Qualifications

Enrolment

and Progression

1. The degree of Master of Public Health by Research may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee) to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation or design.

2. (1) A candidate for the degree shall:

(a) have been awarded an appropriate degree of Bachelor of four full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee, or

b)(i) have been awarded an appropriate degree of Bachelor of three full-time years duration (or the part-time equivalent) from the University of New South Wales or qualifications considered equivalent from another university or tertiary institutin at a level acceptable to the Committee and

(ii) have had the equivalent of at least three years experience in the health services of a kind acceptable to the committee

(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such examination or carry out such work as the Committee may prescribe, before permitting enrolment.

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Academic Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.

(2) In every case, before permitting a candidate to enrol, the Head of the School in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:

(a) full-time attendance at the University;

(b) part-time attendance at the University;

(c) external – not in regular attendance at the University and using research facilities external to the University.

(4) A candidate shall be required to undertake an original investigation or design on an approved topic. The candidate may also be required to undergo such examination and perform such other work as may be prescribed by the Committee.

(5) The work shall be carried out under the direction of a supervisor appointed from the full-time academic members of the University staff.

(6) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

(7) No candidate shall be awarded the degree until the lapse of three academic sessions from the date of enrolment in the case of a full-time candidate or four academic sessions in the case of a part-time or external candidate. In the case of a candidate who has been awarded the degree of Bachelor with honours or who has had previous research experience the Committees may approve remission of up to one session for a full-time candidate and two sessions for a part-time or external candidate.

(8) A full-time candidate for the degree shall present for examination not later than six academic sessions from the date of enrolment. A part-time or external candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

Thesis 4. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the investigation or design.

(2) The candidate shall give in writing to the Academic Registrar two months notice of intention to submit the thesis.

(3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.

(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.

(5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees.

(6) It shall be understood that the University retains the three copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.

5. (1) There shall be not fewer than two examiners of the thesis, appointed by the Academic Board on the recommendation of the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the merits of the thesis and shall recommend to the Committee that:

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

b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree. If is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.

6. A candidate shall pay such fees as may be determined from time to time by the Council.

1. The degree of Master of Public Health by formal course work may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

2. (1) A candidate for the degree shall:

(a) have been awarded the degree of Bachelor from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee), or

(b) have had the equivalent of at least three years experience in the health services of a kind acceptable to the Committee.

(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Academic Registrar on or before a date to be fixed by the Committee, that date being at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the degree until the lapse of three academic sessions from the date of enrolment in the case of a full-time candidate or six sessions in the case of a part-time candidate. The maximum period of candidature shall be six academic sessions from the date of enrolment for a full-time candidate and ten sessions for a part-time candidate. In special cases an extension of these times may be granted by the Committee.

4. A candidate shall pay such fees as may be determined from time to time by the Council.

Examination

Fees

Master of Public Health by Formal Course Work

Qualifications

Enrolment and Progression

Master of Engineering (ME) and Master of Science (MSc)	1. The degree of Master of Engineering or Master of Science by research may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee) to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.
Qualifications	2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.
	(2) An applicant who submits evidence of such other academic or professional attainments as may be approved by the Committee may be permitted to enrol for the degree.
	(3) When the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant, before being permitted to enrol, to undergo such examination or carry out such work as the Committee may prescribe.
Enrolment and Progression	3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Academic Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.
	(2) In every case, before permitting a candidate to enrol, the head of the school* in which the candidate intents to enrol shall be satisfied that adequate supervision and facilities are available.
	(3) An approved candidate shall be enrolled in one of the following categories:
	(a) full-time attendance at the University;
	(b) part-time attendance at the University;
	(c) external - not in regular attendance at the University and using research facilities external to the University.
	(4) A candidate shall be required to undertake an original investigation on an approved topic. The candidate may also be required to undergo such examination and perform such other work as may be prescribed by the Committee.
	(5) The work shall be carried out under the direction of a supervisor appointed from the full-time members of the University staff.
	(6) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school* in which the candidate is enrolled and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.
	(7) No candidate shall be granted the degree until the lapse of three academic sessions in the case of a full-time candidate or four academic sessions in the case of a part-time or external candidate from the date of enrolment. In the case of a candidate who has been awarded the degree of Bachelor with Honours or who has had previous research experience the Committee may approve remission of up to one session for a full-time candidate and two sessions for a part-time or external candidate
	(8) A full-time candidate for the degree shall present for examination not later than six academic sessions from the date of enrolment. A part-time or external candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee
Thesis	4 . (1) On completing the program of study a candidate shall submit a thesis embodying the results of the original investigation.
	.(2) The candidate shall give in writing two months notice of intention to submit the thesis.
	(3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.
	(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.
	(5) Three copies of 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.
	(6) It shall be understood that the University retains the three copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.
Examination	5. (1) There shall be not fewer than two examiners of the thesis, appointed by the Academic Board on the recommendation of the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.
	* Or department where a department is not within a school or schools or departments where the research is being undertaken in more than one school or department.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the merits of the thesis and shall recommend to the Committee that:

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

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school*; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to a further oral, practical or written examination within a period specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the reports of any oral or written or practical examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.

6. A candidate shall pay such fees as may be determined from time to time by the Council.

1. The degree of Master of Engineering or Master of Science or Master of Surveying without supervision may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee) to a candidate who of has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.

2. A candidate for the degree shall have been awarded an appropriate degree of Bachelor from Qualifications the University of New South Wales with at least three years relevant standing in the case of Honours graduates and four years relevant standing in the case of Pass graduates, and at a level acceptable to the Committee.

3. An application to enrol as a candidate for the degree without supervision shall be made on the prescribed form which shall be lodged with the Academic Registrar not less than six months before the intended date of submission of the thesis. A graduate who intends to apply in this way should in his or her own interest, seek at an early stage the advice of the appropriate head of school with regard to the adequacy of the subject matter and its presentation for the degree. A synopsis of the work should be available.

4. (1) A candidate shall submit a thesis embodying the results of the investigation.

(2) The candidate shall give in writing to the Academic Registrar two months notice of intention to submit the thesis.

(3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extend of the candidate's part in the joint research.

(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.

(5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees.

(6) It shall be understood that the University retains the three copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.

5. (1) There shall be not fewer than two examiners of the thesis, appointed by the Academic Board on the recommendation of the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.

(2) Before the thesis is submitted to the examiners the head of the school* in which the candidate is enrolled shall certify that it is prima facie worthy of examination.

Fees

Master of Engineering (ME), Master of Science (MSc) and Master of Surveying (MSurv) without supervision

Qualifications

Enrolment and Progression

Thesis

Examination

	(3) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:
	(a) the candidate be awarded the degree without further examination; or
	(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school*; or
	(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or
	(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or
	(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.
	(4) If the performance at the further examination recommended under (3)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.
	(5) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.
Fees	6. A candidate shall pay such fees as may be determined from time to time by the Council.
Master of Surgery (MS)	1. The degree of Master of Surgery by research may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee) to a candidate who has made an original contribution to knowledge in some field related to surgery.
Qualifications	2. (1) A candidate for the degree shall have been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.
	(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committe may be permitted to enrol for the degree.
	(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.
	(4) A candidate enrolled under (1) above shall not submit a thesis for the degree until the lapse of five years from the date of the award of the degrees mentioned therein.
	(5) A candidate enrolled under (2) above shall not submit a thesis for the degree until such period of time has elapsed since enrolment as the Committee shall decide at the time of approving enrolment.
Enrolment and Progression	3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Academic Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.
	(2) In every case, before permitting a candidate to enrol, the head of the school in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available
	(3) An approved candidate shall be enrolled in one of the following categories:
	(a) full-time candidature: a candidate who is fully engaged in advanced study and research at the University or at one of its teaching hospitals;
	(b) part-time candidature; a candidate whose occupation leaves the candidate substantially free to pursue a program of advanced study and research at the University or at one of its teaching hospitals;
	(c) external candidature: a candidate who is engaged in advanced study and research away from the University or one of its teaching hospitals.
	(4) A candidate shall undertake, or have undertaken prior to enrolment for the degree, a broad postgraduate training in the principles and practice of surgery over a period of at least three full-time years of a kind acceptable to the Committee.
	(5) A candidate shall be required to undertake an original investigation on an approved topic. The candidate may also be required to undergo such assessment and perform such other work as may be prescribed by the Committee.
	* Or department where a department is not within a school or schools or departments where the research is being undertaken in more than one school or department

(6) The work shall be carried out under the direction of a supervisor appointed from the full-time academic members of the University staff.

(7) Either the original work embodied in the thesis or the broad postgraduate training in the principles and practice of surgery shall have been undertaken at the University or at one of its teaching hospitals.

(8) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school* in which the candidate is enrolled and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

(9) No candidate shall be awarded the degree until the lapse of four academic sessions from the date of enrolment in the case of a full-time candidate or six academic sessions in the case of a part-time or external candidate. In the case of a candidate who has had previous research experience the Committee may approve remission of up to two sessions for a full-time candidate and three sessions for a part-time or external candidate.

(10) A full-time candidate for the degree shall present for examination not later than eight academic sessions from the date of enrolment. A part-time or external candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

4. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the investigation.

(2) The candidate shall give in writing to the Academic Registrar two months notice of intention to submit the thesis.

(3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.

(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.

(5) Four copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees.

(6) It shall be understood that the University retains the four copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.

5. (1) There shall be not fewer than three examiners of the thesis, appointed by the Academic Board on the recommendation of the Committee, at least two of whom shall be external to the University.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:

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

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school*; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Commitee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after the a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.

6. A candidate shall pay such fees as may be determined from time to time by the Council.

Fees

Thesis

Examination

*Or department where a department is not within a school or schools or departments where the research is being undertaken in more than one school or department.

Graduate Diploma Graduate Diploma in Paediatrics (DipPaed)	 The Graduate Diploma in Paediatrics may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.
Qualifications	2. (1) A candidate for the degree shall:
	(a) have been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), and
	(b) have had at least one year's hospital experience subsequent to graduation of a kind acceptable to the Committee.
	(2) An applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.
	(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.
Enrolment and Progression	3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Academic Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.
	(2) A candidate for the diploma shall be required to undertake such formal subjects and pass such assessment as prescribed.
	(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.
	(4) No candidate shall be awarded the diploma until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or four sessions in the case of a parttime candidate. The maximum period of candidature shall be four academic sessions from the date of enrolment for a full-time candidate and six sessions for a part-time candidate. In special cases an extension of time may be granted by the Committee.
Fees	4. A candidate shall pay such fees as may be determined from time to time by the Council.

Scholarships and Prizes

The scholarships and prizes listed below are available to students whose courses are listed in this handbook. Each faculty handbook contains in its Scholarships and Prizes section the scholarships and prizes available with that faculty. The General Information section of the Calendar contains a comprehensive list of scholarhips and prizes offered throughout the University.

Scholarships

Undergraduate Scholarships

Listed below is an outline only of a number of scholarships available to students. Full information may be obtained from Room G20, located on the Ground Floor of the Chancellery.

Unless otherwise indicated in footnotes, applications for the following scholarships should be made to the Academic Registrar by 14 January each year. Please note that not all of these awards are available every year.

Donor	Value	Year/s of Tenure	Conditions
General			
Bursary Endowment Board*	\$200 pa	Minimum period of approved degree/ combined degree course	Merit in HSC and total family income not exceeding \$6000
Sam Cracknell Memorial	Up to \$3000 pa payable in fortnightly instalments	1 year	Prior completion of at least 2 years of a degree or diploma course and enrolment in a full-time course during the year of application; academic merit; participation in sport both directly and administratively; and financial need.
Girls Realm Guild	Up to \$1500 pa	1 year renewable for the duration of the course subject to satisfactory progress and continued demonstration of need	Available only to female students under 35 years of age who are permanent residents of Australia enrolling in any year of a full-time undergraduate course on the basis of academic merit and financial need.
W.S. and L.B. Robinson**	Up to \$4200 pa	1 year renewable for the duration of the course subject to satisfactory progress	Available only to students who have completed their schooling in Broken Hill or whose parents reside in Broken Hill; for a course related to the mining industry. Includes courses in mining engineering, geology, electrical and mechanical engineering, metallurgical process engineering, chemical engineering and science.
Universities Credit Union	\$500 pa	1 year with the possibility of renewal	Prior completion of at least 1 year of any undergraduate degree course. Eligibility limited to members of the Universities Credit Union Ltd of more than one year's standing or members of the family of such members

Undergraduate Scholarships (continued)			
Donor	Value	Year/s of Tenure	Conditions
General (continued)			
Alumni Association	Up to \$1500 pa	1 year with the possibility of renewal	Available to students enrolled in any year of a full-time course. Candidates must be the children of Alumni of the University of NSW and may be either permanent residents of Australia or overseas students.

Graduate Scholarships

Application forms and further information are available from the Student Centre, located on the Ground Floor of the Chancellery unless an alternative contact address is provided. Information is also available on additional scholarships which may become available from time to time, mainly from funds provided by organizations sponsoring research projects.

The following publications may also be of assistance: **1.** Awards for Postgraduate Study in Australia and Awards for Postgraduate Study Overseas, published by the Graduate Careers Council of Australia. PO Box 28, Parkville, Victoria 3052;***2.** Study Abroad, published by UNESCO;***3.** Scholarships Guide for Commonwealth Postgraduate Students, published by the Association of Commonwealth Universities.*

Details of overseas awards and exchanges administered by the Department of Employment, Education and Training can be obtained from: Awards and Exchanges Section, Department of Employment, Education and Training, PO Box 826, Woden, ACT 2606.

Where possible, the scholarships are listed in order of faculty. *Available for reference in the University Library.

Donor	Value	Year/s of Tenure	Conditions
General			
University Postgraduate Research Scholarships	Living allowance of \$9000 pa. Other allowances may also be paid.	1-2 years for a Masters and 3-4 years for a PhD degree	Applicants must be honours graduates or equivalent. Applications to Dean of relevant Faculty.
Commonwealth Postgraduate Research Awards	\$12,734 to \$16,433		Applicants must be honours graduates or equivalent or scholars who will graduate with honours in current academic year, and who are domiciled in Australia. Applications to Academic Registrar by 31 October.
Commonwealth Postgraduate Course Awards	Living allowance of \$10,415 pa. Other allowances may also be paid.	1-2 years; minimum duration of course	Applicants must be graduates or scholars who will graduate in current academic year, and who have not previously held a Commonwealth Post-graduate Award. Applicants must be domiciled in Australia. Preference is given to applicants with employment experience. Applications to Academic Registrar by 30 September.

Graduate Scholarships (continued)

Donor	Value	Year/s of Tenure	Conditions
General (continued)	<u> </u>		
Australian American Educational Foundation Fulbright Award	Travel expenses and \$A2000 as establishment allowance.	1 year, renewable	Applicants must be graduates who are domiciled in Australia and wish to undertake research or study for a higher degree in America. Applications close 30 September with The Secretary, DEET, AAEF Travel Grants, PO Box 826, Woden ACT 2606.
Australian Federation of University Women	Amount varies, depending on award	Up to 1 year	Applicants must be female graduates who are members of the Australian Federation of University Women
Commonwealth Scholarship and Fellowship Plan	Varies for each country. Generally covers travel, living, tuition fees, books and equipment, approved medical expenses Marriage allowance may be payable.	Usually 2 years, sometimes 3	Applicants must be graduates who are Australian citizens and who are not older than 35 years of age. Tenable in Commonwealth countries other than Australia. Applications close with Academic Registrar in September or October each year.
The English-Speaking Union (NSW Branch)	\$5000	1 year	Applicants must be residents of NSW or ACT. Awarded to young graduates to further their studies outside Australia. Applications close mid-April with The Secretary, Ground Floor, Sydney School of Arts, 275c Pitt Street, Sydney NSW 2000.
Frank Knox Memorial Fellowships tenable at Harvard University	Stipend of \$US7000 pa plus tuition fees	1, sometimes 2 years	Applicants must be British subjects and Australian citizens, who are graduates or near graduates of an Australian university. Applications close with the Academic Registrar mid October.
Robert Gordon Menzies Scholarship to Harvard	Up to \$US 15,000	1 year	Tenable at Harvard University. Applicants must be Australian citizens and graduates of an Australian tertiary institution. Applications close 31 December with the Registrar, A.N.U., GPO Box 4, Canberra ACT 2601
Gowrie Scholarship Trust Fund	\$4000 pa. Under. special circumstances this may be increased	2 years	Applicants must be members of the Forces or children of members of the Forces who were on active service during the 1939-45 War. Applications close with the Academic Registrar by 31 October.

Graduate Scholarships	(continued)				
Donor	Value	Year/s of Tenure	Conditions		
General (continued)					
Harkness Fellowships of the Commonwealth Fund of New York	Living and travel allowances, tuition and research exper health insurance, bo and equipment and allowances for trave study in the USA	12 to 21 months nses, ook other el and	Candidates must be Australian citizens and 1. Either members of the Commonwealth or a State Public Service or semi-government Authority. 2. Either staff or graduate students at an Australian university. 3. Individuals recommended for nomination by the Local Correspondents. The candidate will usually have an honours degree or equivalent, or an outstanding record of achievement, and be not more than 36 years of age. Applications close 29 August with the Academic Registrar. Forms available from Mr J Larkin, Bureau of Agriculture and Resource Economics, GPO Box 1563, Canberra ACT 2601.		
The Packer, Shell and Barclays Scholarships to Cambridge University	cker, Shell and Living and travel 1-3 years rs Scholarships to allowances, tuition dge University expenses.		Applicants must be Australian citizens who are honours graduates or equivalent, and under 26 years of age. Applications close 15 October with The Secretary, Cambridge Commonwealth Trust, PO Box 252, Cambridge CB2 ITZ, England.		
The Rhodes Scholarship to Oxford University	Approximately £4200 stg pa	2 years, may be extended for a third year.	Unmarried Australian citizens aged between 19 and 25 who have an honours degree or equivalent. Applications close in August each year with The Secretary, University of Sydney, NSW.		
Medicine	•				
Oxford Nuffield Medical Fellowship	Living and travel allowances, tuition fees	2-3 years	Clinical Assistantship at Oxford University. Applicants must be graduates of a university in a Commonwealth country. Applications close with the Academic Registrar 1 November.		
Sir Robert Menzies Memorial Scholarships in Law and Medicine	See under Arts, Cor	nmerce, Law			
The following organizations mundertake graduate study and	nake available grants-in- I research for higher degi	aid for research in med rees.	ical and related fields to enable graduates to		
The Australian Kidney Founda	tion		To enable a suitable graduate to undertake research related to kidney and urinary tract. Applications close 1 September with the Australian Kidney Foundation, PO Box 62, Garran ACT 2605.		
Australian Tobacco Research Foundation	\$9982-15,440 pa plus allowance	1 year renewable	To enable a suitable graduate to undertake research in the relationship between tobacco smoking and health and disease. Applications close 30 June with the Australian Tobacco Research Foundation, PO Box 20, Rose Bay NSW 2029.		

92

Graduate Scholarships (continued)

Donor	Value	Year/s of Tenure	Conditions
Medicine (continued)			
The National Health and Medical Research Council]		Applications close 15 June with the Academic Registrar.
National Heart Foundation of Australia	\$9982-15,440 pa plus allowance	1 year renewable	Appplications close 31 May with The Secretary, NHF, PO Box 2, Woden ACT 2606.
The Asthma Foundation of New South Wales			Applications close 4 August with the Asthma Foundation 1-12 Angel Place, Surday, NSW 2000
Prizes	-		Sydney NSW 2000.

Undergraduate University Prizes

The following table summarizes the undergraduate prizes awarded by the University. Prizes which are not specific to any School are listed under General. All other prizes are listed under the Faculty or Schools in which they are awarded.

Information regarding the establishment of new prizes may be obtained from the Examinations Section located on the Ground Floor or the Chancellery.

Donor/Name of Prize	Value \$	Awarded for	
General			
The Sydney Technical College Union Award	\$400.00 and Bronze Medal	Leadership in student affairs combined with marked academic proficiency by a graduand.	
The University of New South Wales Alumni Association Prize	Statuette	Achievement for community benefit by a student in th final or graduating year.	
Faculty of Medicine			
The Australian College of Occupational Medicine Prize	\$200.00	The best essay, research project or assignment by a final year student or first year graduate of a course in Occupational Health, Preventative and Social Medicine, Community Medicine or related course.	
The Australian Medical Association Prize for General Practice	\$300.00	The best report based on the period of attachment in general practice.	
The Combined Teaching Hospitals Senior Staff Prize	\$250.00	The best performance in the clinical years of the Bachelor of Medicine/Bachelor of Surgery course or the Bachelor of Medicine/Bachelor of Surgery/Bachelor of Science combined course	
The Drug and Alcohol Foundation Prize	\$250.00	The best essay or article on Alcoholism and/or Drug Abuse.	
The Foundation Year Graduates Medal	Silver Medal	Leadership and fellowship by a student in the Bachelor of Medicine, Bachelor of Surgery course.	

Undergraduate University Prizes (continued)

Donor/Name of Prize	Value \$	Awarded for
Faculty of Medicine (continued)		
The Medical Women's Society of New South Wales	\$150.00	The best performance by a female student throughout the medical course (including where undertaken, the Bachelor of Science or Bachelor of Medical Science courses)
The Prince of Wales Hospital Ladies Auxiliary Prize	\$500.00	The best performance in Years 1 and 2 of the Bachelor of Medicine, Bachelor of Surgery course.
The Sugerman Prize for Experimental Pathology	\$1000.00	The most proficient research work done in basic or applied Pathology by a student in the Bachelor of Medical Science course or its equivalent.
The Wallace Wurth Prize	\$200.00	The best overall performance in the Bachelor of Medicine, Bachelor of Surgery course
The W.G. Tellesson Memorial Prize	\$31.50 The best performance in 80.013 Clinical Student in Year 3 of the Bachelor of Medicine of Surgery course.	
School of Anatomy		
The Gray's Point Prize in Anatomy	\$50.00	The best performance in Year 1 Anatomy by a student in the Bachelor of Medicine, Bachelor of Surgery course.
The Jane Skillen Prize in Anatomy	\$250.00	Outstanding merit in all branches of Anatomy by a graduand in the Bachelor of Science with a major in Anatomy
The Maurice (Toby) Arnold Prize	\$100.00	The highest mark in Anatomy (including all sub-disciplines of anatomy) in Year 2 of the Bachelor of Medicine, Bachelor of Surgery course.
The Prize in Practical Anatomy	\$100.00	The best performance in Practical Anatomy (including Radiological Anatomy) by a student in Year 2 of the Bachelor of Medicine, Bachelor of Surgery course
The Winifred Dickes Rost Prize	\$50.00	Outstanding merit in Anatomy in the final year of the Bachelor of Science course.
School of Community Medicine		
The 2/5 Australian General Hospital Association Prize	\$150.00	The best performance in Community Medicine by a Final Year student in the Bachelor of Medicine Bachelor of Surgery course.
The New South Wales Department of Health Prize	\$500.00	The best performance in 79.112 Community Medicine in the Bachelor of Medicine, Bachelor of Surgery course.
The Richard Kelman Prize	\$100.00	Excellence in the Occupational Health option of 79.112 Community Medicine by a student in the Bachelor of Medicine, Bachelor of Surgery course.

Undergraduate University Prizes (continued)

Donor/Name of Prize	Value \$	Awarded for
School of Obstetrics and Gyna	aecology	
The Gordon Lowe Memorial Prize	\$150.00	The best performance in the Clinical and Oral examination in Obstetrics and Gynaecology in the Bachelor of Medicine, Bachelor of Surgery course
The Royal Hospital for Women Senior Medical Staff Prize	\$100.00	The best performance in the final practical and written examinations in Obstetrics and Gynaecology by a student in the Bachelor of Medicine, Bachelor of Surgery course.
School of Pathology		
The G.R. Cameron Memorial Prize	\$50.00	The highest aggregate mark in the Pathology Component of 80.311 Paraclinical Science in the Bachelor of Medicine, Bachelor of Surgery course.
The Macquarie Prize in Diagnostic Pathology	\$500.00 and Medal	The best performance in the Diagnostic Pathology component of the subject 80.311 Paraclinical Science
The Sugerman Prize in Clinical Pathology	\$1000.00	The best performance in a combination of the pathology components of 80.311 Paraclinical Science and 80.400 Integrated Clinical Studies by a student in the Bachelor of Medicine, Bachelor of Surgery course.
School of Paediatrics		
The Paediatrics Staff Prize	\$200.00	An outstanding performance in Paediatrics by a graduand in the Bachelor of Medicine, Bachelor of Surgery course.
School of Physiology and Pharmacol	loav	
The Doerenkamp-Zbinden Prize in Pharmacology	\$100.00	The highest aggregate for 73.022 Pharmacology in the Science Course
The D.N.Wade Prize For Medical Pharmacology	\$100.00	The best performance in the Pharmacology component of 80.311 Paraclinical Science by a student proceeding to the degree of Bachelor of Medicine Bachelor of Surgery.
The F.C. Courtice Prize for Physiology	\$100.00	The best performance in 73.012 Physiology 2 in a Bachelor degree
The F.C. Courtice Prize for Physiology	\$100.00	Best performance in Physiology in Year 2 of the Bachelor of Medicine, Bachelor of Surgery course.
The School of Physiology Staff Prize For Physiology 1 or Principles of Physiology	\$100.00	The best performance in 73.111 Physiology 1 or 73.011A Principles of Physiology in the level 2 science course.
The School of Physiology and Pharmacology Staff Prize For Medical Biology	\$100.00	The best performance in 73.001 Biology for Medical students in year 1 of the Bachelor of Medicine, Bachelor of Surgery course.
The W.E. Glover Prize For Physiology	\$100.00	The best performance in Physiology in year 3 of the Medical Bachelor, Bachelor of Surgery course
The W.E. Glover Prize for Medical Pharmacology	\$100.00	The highest aggregate for the pharmacology component of 80.311 Paraclinical Science School of Psychiatry

Undergraduate University Prizes (continued)

Donor/Name of Prize	Value \$	Awarded for
School of Physiology and Pharma	acology (continued)	
The David Jeremy Keen Memorial Prize	\$50.00	The best performance in 80.212 Human Behaviour 2 in the Bachelor of Medicine, Bachelor of Surgery course.
The John Kerridge Memorial Prize	\$100.00	The best performance in Psychiatry in the Final Year of the Bachelor of Medicine, Bachelor of Surgery course.
School of Surgery The Graduation Prize in Surgery	\$100.00	The best performance in the surgery component of 80.400 Integrated Clinical Studies in the Bachelor of Medicine,Bachelor of Surgery course.
The Royal Australian College of Opthalmologists Prize	\$250.00 and Medal	The best essay on an ophthalmological subject by a student in the final year of the Bachelor of Medicine, Bachelor of Surgery course.

Graduate University Prizes

The following table summarizes the graduate prizes awarded by the University.

Donor/name of Prize	Value \$	Awarded for		
Faculty of Medicine				
The Drug and Alcohol Foundation Prize	\$250.00	The best essay or article on Alcoholism and/or Drug Abuse.		

Student's Timetable										
iay	Friday		Thursday		Wedne	ay	Tuesda	У	Monda	Time
on 1 Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	
										9-10
										10-11
										11-12
										12-1
										1-2
					· · · · · · · · · · · · · · · · · · ·					2-3
										3-4
										4-5
										5-6
	<u></u>									6-7
										7-8
										8-9
										· .
										2-3 3-4 4-5 5-6 6-7 7-8 8-9

The University of New South Wales Kensington Campus

Theatres

Biomedical Theatres E27 Central Lecture Block E19 Classroom Block (Western Grounds) H3 Rex Vowels Theatre F17 Keith Burrows Theatre J14 Main Building (Physics) Theatrette K14 Mathews Theatres D23 Parade Theatre E3 Science Theatre F13 Sir John Clancy Auditorium C24

Buildings

Affiliated Residential Colleges New (Anglican) L6 Shalom (Jewish) N9 Warrane M7 Applied Science F10 Architecture H14 Arts (Morven Brown) C20 Banks F22 Barker Street Gatehouse N11 Basser College C18 Biological Sciences D26 Central Store 813 Chancellery C22 Chemistry Dalton F12 Robert Heffron E12 Civil Engineering H20 Commerce and Economics (John Goodsell) F20 Dalton (Chemistry) F12 Electrical Engineering G17 Geography and Surveying K17 Goldstein College D16 Golf House A27 Gymnasium B5 House at Pooh Corner N8 International House C6 lo Myers Studio D9 John Goodsell (Commerce and Economics) F20 Kanga's House 014 Kensington Colleges C17 (Office) Basser C18 Goldstein D16 Philip Baxter D14

Link B6 Maintenance Workshop B13 Materials Science and Engineering E8 Mathews F23 Mechanical and Industrial Engineering J17 Medicine (Administration) B27 Menzies Library E21 Morven Brown (Arts) C20 New College (Anglican) L6 Newton J12 NIDA D2 Parking Station H25 Philip Baxter College D14 Robert Heffron (Chemistry) E12 Sam Cracknell Pavilion H8 Shalom College (Jewish) N9 Sir Robert Webster (Textile Technology) G14 Souash Courts 87 Swimming Pool B4 Unisearch House L5 University Regiment J2 University Union (Roundhouse) - Stage | E6 University Union (Blockhouse) - Stage II G6 University Union (Squarehouse) - Stage III E4 Wallace Wurth School of Medicine C27 Warrane College M7

General

Academic Staff Office C22 Accounting F20 Admissions C22 Adviser for Prospective Students F15 Anatomy C27 Applied Economic Research G14 Applied Geology F10 Applied Science (Faculty Office) F10 Architecture (including Faculty Office) H14 Arts (Faculty Office) C20 Audio Visual Unit F20 Australian Graduate School of Management . G27 Banking and Finance F20 Biochemistry D26 **Biological and Behavioural Sciences** (Faculty Office) D26 Biomedical Engineering A28 Biomedical Library F23 Biotechnology D26

Bookshop G17 Building H14 Careers and Employment F15 Cashier's Office C22 Chaplains E15. Chemical Engineering and Industrial Chemistry F10 Chemistry E12 Child Care Centres N8. 014 Civil Engineering H20 Commerce and Economics (Faculty Office) F20 Community Medicine D26 Computing Services Department F21, D26 Continuing Education Support Unit F23 Counselling and Careers Service F15 Economics F20 Education G2 Education Testing Centre E15 Electrical Engineering and Computer Science G17 Energy Research, Development and Information Centre F10 Engineering (Faculty Office) K17 English C20 Ethics Committees Secretariat B8 Examinations C22 Fees Office C22 Food Science and Technology F10 French C20 General Staff Office C22 Geography K17 German Studies C20 Graduate Office and Alumni Centre E4 Graduate School of the Built Environment H14 Groundwater Management and Hydrogeology F10 Health Administration C22 History C20 Industrial Arts H14 Industrial Relations and Organizational Behaviour F20 Information Systems F20 Kanoa's House 014 Kindergarten (House at Pooh Corner) N8 Landscape Architecture K15 Law (Faculty Office) F21 Law Library F21 Legal Studies and Taxation F20 Liberal and General Studies C20 Librarianship F23 Library E21

Lost Property C22 Marine Science D26 Marketing F20 Materials Science and Engineering E8 Mathematics F23 Mechanical and Industrial Engineering J17 Medical Education C27 Medicine (Faculty Office) 827 Microbiology D26 **Mineral Processing and Extractive** Metallurov E8 Mining Engineering K15 Music B11 National Institute of Dramatic Art D2 Off-campus Housing C22 Optometry J12 Pathology C27 Patrol and Cleaning Services C22 Petroleum Engineering D12 Philosophy C20 Physics K15 Physiology and Pharmacology C27 Political Science C20 Printing Unit C22 Psychology F23 Public Affairs Unit C22 Publications Section C22 Remote Sensing K17 Russian Studies C20 Safety Science J17 Science and Mathematics Course Office D26 Science and Technology Studies C20 Social Work G2 Sociology C20 Spanish and Latin American Studies C20 Sport and Recreation Centre B6 Student Health E15 Student Records C22 Students' Union E4 and C21 Surveving K17 Tertiary Education Research Centre E15 Textile Technology G14 Theatre Studies B10 Town Planning K15 Union Shop (Upper Campus) D19 University Archives E21 University Press A28 University Union (Blockhouse) G6 Waste Management H20 WHO Regional Training Centre C27 Wool and Animal Science B8



This Handbook has been specifically designed as a source of throughout the year.

higher degrees as well as the conditions for their award applicable to each volume.

For detailed information about courses, subjects and requirements of a particular faculty you should consult the relevant Faculty Handbook. Separate Handbooks are published for the Faculties of Applied Science, Architecture, Arts, Commerce and Economics, Engineering, Law, Medicine, Professional Studies, Science (including Biological and Behavioural Sciences and the Board of Studies in Science and Mathematics), and the Australian Graduate School of Management (AGSM) Graduate School of Management (AGSM)

The Calendar and Handbooks, which vary in cost, are available from the Cashier's Office.