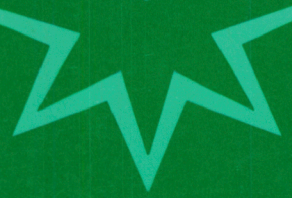


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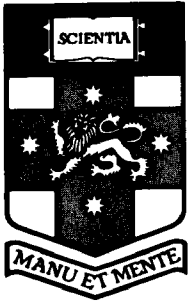
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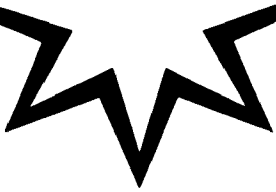
Medicine

1993 Handbook

THE UNIVERSITY OF NEW SOUTH WALES



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Medicine

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The address of The University of New South Wales is:

**P.O. Box 1, Kensington 2033
New South Wales, Australia**

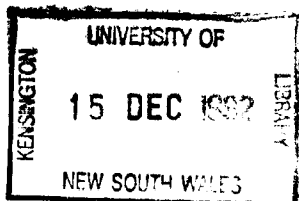
Telephone: (02) 697 2222

Facsimile (02) 662 7471

Telegraph: UNITECH, SYDNEY

Telex: AA26054

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It is University policy to promote equal opportunity in education (refer to EOE Policy Statement, The University of New South Wales *Calendar (Summary Volume)* and *Student Guide* 1993).

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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 33 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.

This Handbook is available to all students in the medicine course and the combined Science/Medicine and Arts/Medicine courses 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. You are advised also to consult frequently the noticeboards in the various Schools, the foyer of the Wallace Wurth Building, the Clinical Schools in our Teaching Hospitals, 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 never hesitate to contact the staff of the Faculty Administration Office and other members of the Faculty for assistance.

W. E. Glover
Dean
Faculty of Medicine

Calendar of Dates

Session Dates

The academic year is divided into two sessions, each containing 67 days for teaching. There is a recess of approximately six weeks between the two sessions and there are short recesses of one week within each of the sessions.

All Faculties (other than Medicine)

Session 1 commences on the Monday nearest 1 March

	1993	1994
Session 1 (67 teaching days)	1 March to 8 April	28 February to 31 March
Recess:	9 April to 18 April 19 April to 11 June	1 April to 10 April 11 April to 10 June
Study Recess:	12 June to 17 June	11 June to 16 June
Examinations	18 June to 6 July	17 June to 5 July
Midyear Recess:	7 July to 25 July	6 July to 24 July

Session 2 (67 teaching days)	26 July to 24 September	25 July to 23 September
Recess:	25 September to 4 October 5 October to 5 November	24 September to 3 October 4 October to 4 November
Study Recess:	6 November to 11 November	5 November to 10 November
Examinations	12 November to 30 November	11 November to 29 November

Faculty of Medicine

	1993	1994
First, Second and Third Years	As for other faculties	As for other faculties
Fourth Year	Term 1 (9 weeks) 11 January to 14 March Term 2 (6 weeks) 15 March to 25 April Term 3 (6 weeks) 3 May to 13 June Term 4 (8 weeks) 14 June to 8 August Term 5 (6 weeks) 16 August to 26 September Term 6 (6 weeks) 27 September to 7 November	Term 1 (9 weeks) 10 January to 13 March Term 2 (6 weeks) 14 March to 24 April Term 3 (6 weeks) 2 May to 12 June Term 4 (8 weeks) 13 June to 7 August Term 5 (6 weeks) 15 August to 25 September Term 6 (6 weeks) 26 September to 6 November
Fifth Year	Term 1 (9 weeks) 18 January to 21 March Term 2 (9 weeks) 29 March to 30 May Term 3 (9 weeks) 7 June to 8 August Term 4 (9 weeks) 16 August to 17 October	Term 1 (9 weeks) 17 January to 20 March Term 2 (9 weeks) 28 March to 29 May Term 3 (9 weeks) 6 June to 7 August Term 4 (9 weeks) 15 August to 16 October

Sixth Year

Term 1 (8 weeks)
11 January to 7 March

Term 2 (6 weeks)
15 March to 25 April

Term 3 (6 weeks)
3 May to 13 June

Term 4 (8 weeks)
14 June to 8 August

Term 5 (6 weeks)
16 August to 26 September

Term 6 (6 weeks)
27 September to 7 November

Term 1 (8 weeks)
10 January to 6 March

Term 2 (6 weeks)
14 March to 24 April

Term 3 (6 weeks)
2 May to 12 June

Term 4 (8 weeks)
13 June to 7 August

Term 5 (6 weeks)
15 August to 25 September

Term 6 (6 weeks)
26 September to 6 November

Comprises Schools of Anatomy, Community Medicine, Medical Education, Obstetrics and Gynaecology, Paediatrics, Pathology, Physiology and Pharmacology, Psychiatry, and Clinical Schools at the Prince Henry and Prince of Wales Hospitals, St Vincent's Hospital, St George Hospital, and the South Western Sydney Area Health Service.

Dean

Professor W.E. Glover

Presiding Member

Professor Ian W. Webster

Associate Dean (Research)

Professor D. Ian McCloskey

Executive Officer

Vacant

Administrative Officers

Gordon Lester Rees

Pamela Gai O'Hara, BA N.E.

Administrative Assistants

Hilary Rena Cox

Moya Patricia Pedemont

**See end of the Medicine Staff List for Conjoint Key.*

School of Anatomy**Associate Professor and Head of School**

David James Tracey, BSc Syd., PhD Stan.

Professor of Anatomy

Frederick William Dickes Rost, BSc(Med) MB BS Syd.,

PhD DCP Lond., DipRMS

Senior Lecturers

Darrel Ananda Fernando, BVSc Ceyl., PhD Lond.

Brian Warwick Freeman, BSc Syd., PhD UNSW

Saw Kin Loo, MB BS Malaya, PhD Sing.

Murray Stanley Smith, BSc PhD Cant., MHPed UNSW

Elizabeth Jane Tancred, BSc PhD UNSW

Phil Mary Elizabeth Waite, BSc PhD Lond., MB ChB Otago

Lecturers

Kenneth William Scott Ashwell, BMedSc MB BS UNSW, PhD Syd.

Dzung Huu Vu, MD Saigon, MB BS UNSW, DipAnat, A.S.A.N.Z.

Associate Lecturer

Priti Pandey, MB BS Nag., MD Ban.

Professional Officers

Patrick John de Permentier, MSc UNSW

Paul Halasz, MSc Bud.

Geoffrey Douglas Schneider, BSc Qld.

Honorary Visiting Professor

Maurice Arnold, MB ChB Witw., Hon. MD UNSW, FRCSEd

Honorary Visiting Fellow

Lawrence John Gray, MB BS Syd., FRACS

Administrative Assistant

Lorraine Brooks

Clinical School - Prince Henry/Prince of Wales Hospitals

Clinical Associate Dean

Professor J. M. Ham

Warden of Clinical Studies

Maxwell Elmore Cochrane Thorpe, MB BS Syd., MD UNSW, FRACP

Administrative Assistant

Margaret Mary Coyle, BA N.E.

Department of Medicine

Professor of Medicine and Head of Department

John Michael Dwyer, AO, MB BS Syd., PhD Melb., FRACP

Professor of Neurology

David James Burke, MD DSc UNSW, FRACP

Professor

Colin Nicholson Chesterman, MB BS Syd., DPhil Oxon., FRACP, FRCPA

Associate Professors

Michael Anthony, OBE, MB BS Syd., FRCP, FRACP
Terry Dorcen Bolin, MB BS Syd., MD UNSW, DCH Lond., FRCP, FRACP, FRCPed

John Alfred Charlesworth, MB BS UNSW, MD Syd., FRACP
Beng Hock Chong, MB BS Malaya, PhD Syd., MRCP, FRACP, FRCPA

Hal John Hester Colebatch, AM MD BS Adel., FRACP
Alan Edward Davis, MD BS Syd., BSc MA Oxon., FRCP, FRACP

Michael Leonard Friedlander, MB ChB Birm., MRCP, FRACP

Simon Charles Gandevia, BSc(Med) MD PhD DSc UNSW
Narelle Lickiss, BSc(Med) MD BS Syd., FRCP, FRACP
Graham John Macdonald, BSc(Med) MB BS Syd., MD UNSW, FRACP, FRCP

Ian Provan Cathcart Murray, MD ChB Glas., FRCPed, FRACP, Hon FACR

Frederick John Palmer, MB ChB Sheff., DMRD Lond., FRCP, FRACP, MRCP

Romano Cesare Pirola, MB BS Syd., MD UNSW, FRACP
Bruce Allen Pussell, MB BS UNSW, PhD Lond., FRACP

Pamela Russell, MSc PhD Melb., DipEd Canberra C.A.E.

Senior Lecturers

Roger Maxwell Allan, MB BS UNSW, FRACP

Stephen Colagiuri, MB BS Syd., FRACP

James Gordon Colebatch, BSc(Med)(Hons), MB BS PhD UNSW, FRACP

Geoffrey Burstall Field, BSc(Med) MB BS Syd., MD UNSW, FRACP, FACOM, MFOM

Robert Walter Giles, MD BS UNSW, FRACP, FACC
John David Gillies, MB BS Syd., MD UNSW, FRACP

Peter James Goadsby, MSc MD BS PhD UNSW, FRACP
Philip David Jones, MB BS Syd., PhD A.N.U., FRACP

David Kenneth McKenzie, BSc(Med) MB BS Syd., PhD UNSW, FRACP

Malcolm Reynolds Robertson, MB BS Syd., FRACP

Monica Anne Rossleigh, MB BS UNSW, FRACP

Maurice Charles Rozenberg, MD BS Syd., FRACP, FRCPA

Bernard Edward Tuch, MB BS Qld., BSc PhD Syd., FRACP

Warren Frederick Walsh, MB BS Syd., FRACP, FACC

Jeremy Somers Wilson, MB BS Syd., MD UNSW, FRACP

Lecturers

Jane Beeby, BSc MB BS Syd.

James Bell, BA MB BS Syd., FRACP

Gregory Brett Cranny, MB BS UNSW, FRACP

Craig Ronald Lewis, MB BS UNSW, FRACP

Vimala Venugopalan Nayanar, MB BS Madr., DDU Syd., MRACR

Robert Leo Phillips, BSc MB BCh Witw., DMRD Lond., DDU Aust Soc Ult Med, FRCP, MRACR

Roger John Renton, MB BS Syd., DPRM, FACRM

Tuly Rosenfeld, MB BS Syd., FRACP

Professional Officers

Clifford Ng, MSc UNSW

Helen Margaret Theile, BSc Qld., MSc UNSW

Administrative Assistant

Fiona Alexander

Department of Surgery

Professor of Surgery and Head of Department

John Mackenzie Ham, MD BS Syd., FRACS, FACS

Professor of Ophthalmology

Vacant

Associate Professor

Minas Theodore Coroneo, BSc(Med) MB BS MSc Syd., MS UNSW, FRACS, FRACO

Senior Lecturers

Philip John Crowe, MB BS Syd., DPhil Oxf., FRCS

Mark Cedric Gillies, MB BS PhD Melb., FRACO, FRACS

Hedy Mameghan, MA BM BCh Oxf., FRCP, FRACP

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

Philip Gregory Truskett, MB BS Syd., FRACS

Bryan Wheaton Yeo, MB BS Syd., FRCS, FRACS

Lecturers

Michael Bernard Barton, MB BS Syd., FRACP

Garry Robert Brian, MB ChB Otago, FRACS, FRACO

Senior Project Scientist

Margaret Anne Rose, BVSc Syd., PhD UNSW

Department of Traumatic and Orthopaedic Surgery

Hugh Smith Professor of Traumatic and Orthopaedic Surgery and Head of Department

Vacant

Honorary Associate

Mervyn John Cross, MB BS Syd., FRACS

Visiting Fellows

Brett Gerard Courtenay, MB BS Syd., FRACS(Ortho)

Phillip Peter Lutton, BE PhD UNSW

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

Administrative Assistant

Renee Claire Hannan

Department of Anaesthetics and Intensive Care

Professor

‡Thomas Andrew Gabriel Torda, MB BS Syd., MD UNSW, DA Lond., DipABA, FFARCS, FFRACS

Lecturers

‡Michael George Beaudoin, MB BS Syd., FFRACS

‡Michael James Carlton, BSc(Med) MB BS UNSW, FFRACS

‡Keith Kelly, MB BS UNSW, FFRACS

‡Edward Loughman, MB BS UNSW, FFRACS

‡Yahya Shehabi, MB BS Jordan, FFRACS

Clinical School - St George Hospital

Clinical Associate Dean

Professor J. A. Whitworth

Administrative Assistant

Suzanne Ryder

Department of Medicine

Professor of Medicine and Head of Department

Judith Ann Whitworth, DSc MD BS PhD *Melb.*, FRACP

Professors

†John Patrick Edmonds, MB BS Syd., FRACP

†Lawrence Guy Howes, MB BS PhD *Melb.*, FRACP

†Steven Anthony Krilis, MB BS UNSW, PhD Syd., FRCP

Associate Professor

†Mark Ashley Brown, MB BS MD UNSW, FRACP

Senior Lecturers

David John de Carle, MB BS UNSW, FRACP

†Ian James Cook, MB BS MD Syd., FRACP

†Yiu-Lam Kwan, MB BS H.K., FRACP, FRCPA

†Louis Eugene McGuigan, MB BS MD UNSW, FRACP

†Donald Sidney Pryor, MB BS Syd., MD UNSW, FRACP

†Allan David Sturgess, MB BS *Qld.*, PhD *Melb.*, FRACP, FRCPA

Alessandro Stephen Zagami, MB BS UNSW, FRACP

Lecturers

†Sydney Patrick Butler, BSc(Med) MB BS MA UNSW, FRACP

†David John Gorman, BSc MB BS Syd., FRACP

John James Kelly, MB BS UNSW, FRACP

†Richard James Quinn, MB BS UNSW, FRACP, DDU

†David Ronald Ramsey, MB BS Syd., FRACP

Department of Surgery

Professor of Surgery and Head of Department

David Lawson Morris, MB ChB MD *Birm.*, PhD *Nott.*, FRCS, FRCSE, FRACS

Lecturers

†Adam Chan MB BS UNSW, FACEM

†Derek Glenn, MB BS Syd., FRACR

†Ian Stafford Lovett, MB BS Syd., MRCP, FRACR

†John Manning, BMedSc UNSW, FACEM

William Beattie Ross, BSc *Edin.*, MBChB *Edin.*, FRCSEd, ChM

†Ronald Sekel, MB BS Syd., FRACS, FRCSE

Department of Anaesthetics and Intensive Care

Professor

†David Brunton Gibb, BSc(Med) MB BS Syd., DOBstRCOG Lond., FFRACS, FFRACS

Lecturers

†Robert Bruce Gillies, MB BS UNSW, FFRACS

†Theresa Jacques, MB BS *Monash*, FFRACS

†Richard Walter Morris, MB BS Syd., FFRACS

Clinical School - St Vincent's Hospital

Clinical Associate Dean

Professor P. M. Brooks

Administrative Assistant

Monica Mary Adams, DipPhysTher Syd.

Department of Medicine

Professor of Medicine and Head of Department

Peter Michael Brooks, MD BS *Monash*, FRACP, FACRM

Professor of Clinical Immunology

Ronald Penny, MD BS Syd., DSc UNSW, FRACP, FRCPA

Professors

§Donald John Chisholm, MB BS *Syd.*, FRACP
 Richard Osborne Day, MB BS *Syd.*, MD *UNSW*, FRACP
 ††Leslie Lazarus, AO MB BS *Syd.*, FRACP, FRCPA, FAACB
 Michael Francis O'Rourke, MD BS *Syd.*, FRACP, FACC
 §John Shine, BSc PhD *A.N.U.*
 §Robert Lyndsay Sutherland, MAgSc *Cant.*, PhD *A.N.U.*

Associate Professors

††Michael Kerry Atkinson, MB BS *Lond.*, MD *Wash. and UNSW*, FRACP, MRCP
 ††James Crawford Biggs, MB BS *Syd.*, DPhil *Oxf.*, FRACP, FRCPA
 ††David Hamilton Bryant, MD BS *Syd.*, FRACP
 ††Terence John Campbell, BSc(Med) MB BS, *UNSW*, DPhil *Oxf.*, FRACP
 ★David Albert Cooper, BSc(Med) MB BS *Syd.*, MD *UNSW*, FRACP, FRCPA
 ††Bruce David Doust, BSc(Med) MB BS *Syd.*, FRACP, DDU
 §John Allan Eisman, BSc(Med) MB BS *Syd.*, PhD *Melb.*, FRACP
 ††Michael Feneley, MD BS *UNSW*, FRACP
 ††John Grygllel, BPharm MB BS *Syd.*, MD *Flinders*, FRACP
 ††Ken Klan Ho, MB BS *Syd.*, MD *UNSW*, FRACP
 ††Steven Kossard, BSc MB BS PhD *Syd.*, FACC
 §Edward William Kraegen, BSc PhD *UNSW* MACPSM
 ††Phillip Sambrook, MD BS *UNSW*, FRACP
 Leon Abraham Simons, BSc(Med) MD BS *Syd.*, FRCP, FRACP

Senior Lecturers

††John Branson, MB BS DipPharm *Syd.*, FRACP, MRCP, DDU
 ††Samuel Breit, MD BS *UNSW*, FRACP, FRCPA
 ††Bruce James Brew, MB BS *Syd.*, FRACP
 ††Lesley Veronica Campbell, MB BS *Syd.*, MD *Wash. and UNSW*, FRACP, MRCP
 ††Russell Donald Clark, MB BS *Syd.*, FRACP, DTM&H
 ††Milton Laurence Cohen, MD BS *Syd.*, FRACP
 ††Paul Darveniza, MD BS *Syd.*, FRACP, AAN
 Donald John Frommer, BSc MD BS *Lond.*, FRCP, FRACP
 ††Judith Freund, MB BS *Syd.*, MRCP, FRACP
 ††Gordian Ward Oskar Fulde, MB BS *Syd.*, FRCS, FRCSEd., FRACS, FRCS(A&E)Ed, FACEM
 ††Anne Margaret Keogh, MB BS MD *UNSW*, FRACP
 ††Peter Simon Macdonald, MB BS PhD *Melb.*, FRACP
 ††Michael Anthony McGrath, MB BS *Syd.*, MD *UNSW*, FRACP
 ††Nicholas Antony Pocock, MB BS *Syd.*, MD *UNSW*, FRACP
 William Arthur Sewell, MB BS BSc *Syd.*, PhD *Melb.*
 §George Albert Smythe, BSc PhD *UNSW*
 ††Robert Charles Wright, MB BS *Syd.*, FRACP, FFARACS

Lecturers

††Santhirasegaram Balabrasubramaniam, MSc PhD *Lond.*, FRCS
 ††James Michael Hayes, MB BS *Syd.*, FRACP
 Russell Ludowyke, BSc *LaT.*, PhD *NE Lon. Poly.*
 ††Ronald Michael Malor, BSc PhD *Syd.*
 ††Paul Thomas Preisz, MB BS *Syd.*, FACEM
 ††Alexander David Wodak, MB BS *Syd.*, FRACP MRCP

Department of Surgery

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

Senior Lecturers

Alan Carrick Meek, MB ChB MD *Glas.*, FRCS
 ††Phillip Maxwell Spratt, MB BS *Syd.*, FRACS, FRCS

Lecturers

John Crozier, MB BS *Syd.*, FRACS
 ††Richard Priestly Lee, MB BS *UNSW*, FFARACS
 ††Graeme William Morgan, BPharm MB BS *Syd.*, MRCP, FRACP

Department of Anaesthetics and Intensive Care**Associate Professors**

††Gordon Alfred Harrison, MB BS *Syd.*, MHPed *UNSW*, FFARACS
 ††Geoffrey Ronald Cutfield, MB ChB *Otago*, DPhil *Oxf.*, FFARACS

Senior Lecturers

††Ronald Ernest Benson, MB BS *Syd.*, FRACP, FFARACS
 ††Brian Francis Horan, MB BS *Syd.*, FFARACS, FFARACS

Lecturers

††Neil Thomas Bradburn, MB BS *Syd.*, FFARACS
 ††Judith Mary Branch, MB BS *Syd.*, FFARACS
 ††Gregory Francis O'Sullivan, MB BS *UNSW*, FFARACS

Clinical School - South Western Sydney Area Health Service

Clinical Associate Dean
 Professor I. W. Webster

Administrative Assistant
 Kerry Anne Hughes

Department of Medicine

Professor of Medicine and Head of Department
 Bruce Milne Hall, MB BS PhD *Syd.*, FRACP

Lecturers

ΔMichael Peter Harvey, MB BS *Syd.*, FRACP, FRCPA
 ΔAndrew Paul Hopkins, MB BS *Syd.*, FRACP, DDU
 ΔSusan Ieraci MB BS *Syd.*, FACEM

Department of Surgery

Professor of Surgery and Head of Department

Stephen Arthur Deane, MB BS *Syd.*, FRACS, FACS, FRCS

Senior Lecturers

ΔKenneth Merten, MB BS *Syd.*, FRCSEd, FRACS

ΔDavid Rae Sloane, MB BS *Syd.*, FRCSEd, FRACS

Department of Anaesthetics and Intensive Care

Professor of Anaesthetics and Intensive Care and Head of Department

Kenneth Mark Hillman, MB BS *Syd.*, FFARCS, FFRACS

Lecturers

ΔSean Jeremy Beehan, MB BS *Otago*, FFRACS

ΔGillian Frances Bishop, MB ChB *Otago*, FFRACS

ΔMichael David Buist, MB ChB *Otago*, FRACP

ΔRoss Kenneth Kerridge, MB BS *Syd.*, FFRACS, FFRACS

ΔMartin Elvis Lum MB ChB *Otago*, FFRACS

ΔHoward Roby, MB BS *Syd.*, FFRACS

School of Community Medicine

Professor of Community Medicine and Head of School

Peter Erne Baume, MD BS *Syd.*, AO, FRACP, FRACGP, FAFPHM

Professor of Communicable Diseases

Adrian Mindel, MB BCh *Witw.*, MSc *Lond.*, MRCP

Professor of Public Health

Ian William Webster, MD BS *Melb.*, FRACP, FRACGP, FRACMA, FACRM

Professor of Geriatrics

Peter Frank Sinnett, MD BS *Syd.*, FRACP, FACRM

Professor of Rehabilitation, Aged and Extended Care

Frederick Ehrlich, MB BS *Syd.*, PhD *Macq.*, FRCS, FACRM, MRCPsych

Associate Professors

Adrian Bauman, MBBS, MPH, PhD *Syd.*, FAFPHM

Mark Fort Harris, MD BS *Syd.*, DRACOG, FRACGP

‡Richard Frederick Jones, MB BS *Syd.*, DPRM, FRCS, FRCSEd, FRACS, FRACP

John Kaldor, BA *W.Aust.*, MA A.N.U., PhD *Calif.*

‡Narelle Lickiss, BSc(Med)Hons MB BS MD *Syd.*, FRCP, FRACP

‡Andrea Mant, MB BS *Syd.*, MD *UNSW*, FRACP

Robyn Lesley Richmond, MA *Syd.*, PhD *UNSW*

††Philip Sambrook, MD BS *UNSW*, FRACP

Senior Lecturers

○John Bernard Baggott, MB BS *Syd.*, FACRM

††Russell Donald Clark, MB BS DTM&H *Syd.*, FRACP

ΔHugh Grant Dickson, MB BS *Qld.*, FACRM

*Julian Gold, MB BS *Syd.*, DipE&MS *Lond.*

Lawrence Yook Chee Lai, BSc PhD *W.Aust.*, MHPed *UNSW*

Paul Murray McNeill, MA *Cant.*, LLB *Otago*, PhD *UNSW*

Deborah Claire Saltman, MB BS *Syd.*, MD *UNSW*

Don Edward Smith, MBChB *Otago*

Alan Edmund Stark, BA *Adel.*, MA PhD *UNSW*, DipT *Adel.T.C.*

‡‡George Meredith Stathers, MB BS *Syd.*, FRACP

Lecturers

‡James Bell, BA MB BS *Syd.*, FRACP

†Gregory Thomas Bowring, BSc(Med), MB BS *UNSW*, FACRM

**Annette May Britton, MB BS *Syd.*, FRACP

†David James Burke, BMed *N'cle (N.S.W.)* FRANZCP

ΔDavid Anthony Conforti, MB BS *UNSW*, FRACP

♥Neil John Cooney, MB BS *Syd.*, FRACP

ΔEdward Kevin Cullen, BSc MB BS *Syd.*, MRCP, FACRM

†Brian Michael Draper, MB BS *Syd.*, FRANZCP

‡Stella Engel, MB BS *UNSW*, DPRM, FACRM

○Hugh John Fardy, MB BS *UNSW*, DRACOG

ΔRobert Ralph Fisher, MB BS *UNSW*, FRACGP

John Francis Frith, MB BS BSc(Med) DipEd *UNSW*

‡‡Peter Neil Gonski, BMedSc, MB BS *UNSW*, FRACP

†David John Gorman, BSc MB BS *Syd.*, FRACP

ΔAdeline Hodgkinson, MB BS *UNSW*, FACRM

ΔSheila Mary Knowlden, MB BS *Syd.*, DOBstRCOG, MRACGP

†Robert Peter Leitner, MB BS *Syd.*, FRACP

‡Helen Molony, MB BCh *Dublin* BAO *N.U.I.*, FRANZCP

†Christopher John Poulos, MB BS *Syd.*, FACRM

ΔGawaine Powell-Davies, BA *Camb.*, MHP *UNSW*

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‡Tuly Rosenfeld, MB BS *Syd.*, FRACP

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ΔGregory Joseph Stewart, MB BS MPH *Syd.*, FRACMA

**Thiru Underwood, BSc MB BS *Ceylon*, MRCP, FRSM

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John Vallentine, MB BS *Syd.*, MRCP

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Emeritus Professor Betty Watts, OBE, BA Bed Phd *Qld.*, FACE

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David Edmund Barton, MB BS Syd., DOBstRCOG, FRACP
 Constance Dimity Pond, BA DipEd MB BS DipSocSc, FRACGP

Project Scientist

Stephen Ronald Lord, BSc MA PhD Syd.

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‡Joseph Anthony Dalzell, AM MHPed UNSW, DipOrth Cumb., DOBA

Administrative Assistant

Anna Ippodimonte

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Associate Professor R. C. Bandaranayake

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

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*Bernard William Stewart, MSc UNSW, PhD Lond., ARACI

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‡Gillian Turner, MB ChB St.And., DCH, MRCP, FRCP

‡Marcus Rex Vowels, MB BS Syd., FRACP

‡Leslie White, MB BS Syd., MD UNSW, FRACP

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*Michelle Haber, BSc(Psych) PhD UNSW

‡Owen David Hugh Jones, BA Cant., MB BChir, MRCP U.K.

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 Stanley Mackowiak, MD BS N.Y.State., AAS

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ΔVictor Nossar, MB BS UNSW, FRACP

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 ‡Glenn Mark Marshall MB BS UNSW, FRACP
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 ‡Sally Margaret Pittman, BA *Macq.*, PhD *Lond.*
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Administrative Assistant

Jeffrey Eric Saynor

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Professor of Pathology and Head of School

Athol William John Lykke, MD BS *Adel.*, FRCPA, MRCPATH

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‡Colin Nicholson Chesterman, MB BS *Syd.*, DPhil *Oxf.*, FRACP, FRCPA
 ††Leslie Lazarus, AO MB BS *Syd.*, FRACP, FRCPA, FAACB
 ‡Bruce Albert Warren, BSc(Med) MB BS *Syd.*, DPhil DSc *Oxf.*, FRC, FRCPA

Associate Professors

‡Sydney Malcolm Bell, MD BS *Syd.*, FRCPA
 ‡Beng Hock Chong, MB BS *Malaysia*, PhD *Syd.*, FRCPA, FRACP
 ΔDavid John Davies, BSc MB ChB MD *Liv.*, FRCPA
 Cameron Rolfe Howlett, BVSc PhD *Syd.*, MRCVS, MACVSc
 Rakesh Kamal Kumar, MB BS *All-India I.M.S., New Delhi*, PhD UNSW
 ΔRosemary Munro, MB BS *Syd.*, FRCPA, FRC, MRCP, DpBact
 ‡Daya Naidoo, MB ChB MD *Natal*, FRCPA, MAACB
 Denis Wakefield, MD BS UNSW, FRACP, FRCPA

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†Thomas Albert Cook, MB BS *Manc.*, FRCPath, FRCPA
 ‡Michael John Denton, BSc MB ChB *Brist.*, PhD *Kings, Lon.*
 ††Anthony Dodds, MB BS *Syd.*, FRCPA, FRACP
 ΔSujatha Sarojini Eugene Fernando, MB BS *Ceyl.*, MSc *Lond.*, FRSTM&H, FRCPA
 ††John Latham Harkness, MB BS *Monash*, DCP *Lond.*, FRCPA
 Shirley Grace Higgins, MB BS *Syd.*, MD UNSW
 †Yiu-Lam Kwan, MB BS *H.K.*, FRACP, FRCPA
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 †Elizabeth Anita Reiss-Levy, MB BS DCP *Syd.*, FRCPA,

MASM

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 ‡Peter Charles Taylor, MB BS UNSW, FRCPA
 ‡Jimmy Leng Chai Yong, BSc(Med) MB BS PhD UNSW, FRCP

Lecturers

‡Bridget Elizabeth Cook, MB BS UNSW, FRACP
 ‡Barrie John Gatus, MB BS DTM&H *Lond.*, FRCPA, MRCP
 ΔMichael Peter Harvey, MB BS *Syd.*, FRACP, FRCPA
 Nicholas Hawkins, MB BS UNSW
 †Peter William Kyle, BScAgr MB BS *Syd.*, FRCPA, MRCP
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 Gregory Charles Rhodes, MB BS PhD UNSW
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Honorary Associate

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

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 †Douglas Ian McCloskey, BSc(Med) MB BS *Syd.*, DPhil *Oxf.*, DSc UNSW, FRACP, FTS, FAA
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Professor of Clinical Pharmacology

Richard Osborne Day, MB BS *Syd.*, MD UNSW, FRACP

CSIRO Research Professor

Juhl Robert Stanley Hales, MSc N.E., PhD *Glas.*

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†David Brunton Gibb, BSc(Med) MB BS *Syd.*, DOBstRCOG *Lond.*, FFARCS, FRCS, FFARCS
 †Lawrence Guy Howes, MB BS PhD *Melb.*, FRACP

Associate Professors

Peter Hosford Barry, BSc PhD *Syd.*, DSc UNSW
 ††Terence John Campbell, BSc(Med) MB BS UNSW, DPhil *Oxf.*, FRACP
 John Joseph Carmody, MD BS *Qld.*
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 Ian Richard Neering, BSc PhD UNSW, MSc *Syd.*
 Michael Alan Perry, MRurSc N.E., PhD UNSW

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 ‡Susan Elizabeth Tett, BPharm PhD *Syd.*
 ‡Judith Sylvia Waker, DipPharm (CITNZ) PhD *Syd.*

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Syd. Teachers Coll., DipAnimalCare *N.S.W.I.T.*
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UNSW, HonMB *Melb.*, FRACP
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 FRACP

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 Alan Malcolm Duffield, BSc PhD *W.Aust.*
 Gregory Michael Murray, PhD *Tor.*, MDS *Syd.*, FRACDS

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 Bernard Joel Lake, MB BS *Syd.*, MRCP, MRCPed
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Barbara Millicent Bohdanowicz, BSc DipEd *Syd.*

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Bryanne Ethel Wadkie Barnett, MB ChB *Aberd.*, MD *UNSW*
 FRANZCP
 Alexander Blaszczyński, BA *UNSW*, MA DipPsych *Syd.*,
 PhD *UNSW*, MAPS
 Philip Bowden Mitchell, MB BS *Syd.*, MD *UNSW*,
 MRCPsych, FRANZCP

Senior Lecturers

††Neil Steven Buhrich, MB BS *Syd.*, MD *UNSW*, DPM
Lon., MRCPsych
 ‡Stanley Victor Catts, MD BS *UNSW*, FRANZCP
 ΔLeslie Raymond Hill Drew, BSc MB BS *Melb.*, FRANZCP
 Ian Bernard Hickie, MD BS *UNSW*, FRANZCP
 ‡Florence Levy, MB BS *Melb.*, MPh *Yale*, MD *UNSW*
 MRANZCP
 ‡Richard John Perkins, MB BS *Lon.*, DPM(RCP&RCS),
 MRCPsych
 ΔJames Thomas Quinn, BSc MD DPM *Queens, Belf.*,
 MRCPsych, ABPsC, FRANZCP
 ‡Perminder Singh Sachdev, MB BS, MD PhD *UNSW*,
 MRANZCP
 ‡Kathleen Anne Wilhelm, MD BS *UNSW*, FRANZP

Lecturers

ΔWilliam Bruce Andrews, MB BS *UNSW*, FRANZCP
 ‡Marie-Paule Veronique Austin, MB BS *Monash*,
 FRANZCP
 ‡John Lindsay Brennan, BSc(Med) MB BS *Syd.*,
 FRANZCP
 ‡†Nerida Brinkley, MB BS DPM *Melb.*, FRANZCP
 †David James Burke, BMed *N'cle (N.S.W.)*, FRANZCP
 ‡Charles Post Doughty, MB BS *Syd.*, FRANZCP
 †Brian Michael Draper, MB BS *Syd.*, FRANZCP
 ‡Michael Dudley, MB BS *Syd.*, BD *Melb.*, FRANZCP
 ††Edgar David D'Arigdor Freed, MB ChB *Witw.*, FFPsych
 SA, FRANZCP
 †Jean Eric Gassy, MB BS *Syd.*, FRANZCP
 ‡Dusan Hadzi-Pavlovic, BSc MPsychol *UNSW*
 Catherine Mason, MB BS *Syd.*, MPH *Syd.*, FRANZP,
 CerTHed
 ΔAlex Radojevic, BSc MB BS *Syd.*, FRANZCP
 ‡Anthony Hobart Samuels, MB ChD *Witw.*, FRANZCP
 ‡Andrew John Wilson, MB BS *Syd.*, FRANZCP
 ‡John Murray Wright, MB BS *Syd.*, FRANZCP

Visiting Professor

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

Administrative Assistant

Sandra Evans

School of Psychiatry**Professor and Head of School**

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 FRANZCP

Professors

John Gavin Andrews, ChB MD *Otago*, DPM *Melb.*,
 FRANZCP, FRCPsych
 ‡Henry Brodaty, MB BS *Syd.*, MD *UNSW*, FRACP,
 FRANZCP
 ‡Robert Astley Finlay-Jones, MB BS PhD *W.Aust.*,
 FRANZCP, MRCP
 Derrick Michael Silove, MB ChB *Capet.*, FRANZCP
 ††Brent Geoffrey Herbert Waters, MD BS *Monash*,
 FRANZCP, FRCP

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Surgery

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Other Academic Staff

Clinical Supervisor Sutherland Hospital

‡Peter Neil Gonski, BMedSc, MB BS UNSW FRACP

Senior Lecturer

Anaesthetics and Intensive Care, Royal Hospital for Women

✧Stephen Paul Gatt, MD *Maka.*, FFARACS, MRCS, LRCP

Lecturer

Anaesthetics and Intensive Care, Royal Hospital for Women

✧Ross Francis Smith, MB BS UNSW, FFARACS

Faculty Units and Centres

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Lecturers

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Senior Project Scientist

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Prince of Wales Hospital****Professor and Director**Douglas Ian McCloskey, BSc(Med) MB BS Syd., DPhil Oxf.,
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† Conjoint appointment with St George Hospital

‡‡ Conjoint appointment with Sutherland Hospital

✱ Conjoint appointment with Royal Hospital for Women

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Cancer Research Centre§ Conjoint appointment with Garvan Institute of Medical
Research▷ Conjoint appointment with Prince of Wales Medical
Research Institute✦ Conjoint appointment as a National Health and
Medical Research Council Research Fellow¶ Conjoint appointment as a National Health and
Medical Research Council Senior Research Fellow☆ Conjoint appointment as a National Health and
Medical Research Council Principal Research Fellow

Δ SWSAHS

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** Conjoint appointment with Canterbury Hospital

Skin and Cancer Foundation**Chief Executive Officer**

Mr L. M. Lewis, AASA, CPA

Associate Professor

Stevan Kossard, BSc MB BS PhD Syd., FACD

Handbook Guide

This Handbook is divided into two main sections comprising undergraduate study and graduate study. Read the opening sections of the handbook first, and then read the information relevant to your selected course, undergraduate or graduate as appropriate. Detailed information on each subject can then be found under **Subject Descriptions**, which provides full details of subject content, contacts and session/prerequisite details.

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.

Information Key

The following key provides a guide to abbreviations used in this book:

C	credit points
F	full year (Session 1 plus Session 2)
HPW	hours per week
L	lecture
P/T	part-time
S1	Session 1
S2	Session 2
SS	single Session, but which Session taught is not known at time of publication
T	tutorial/laboratory
U	unit value
WKS	weeks of duration
X	external

Prefixes

The identifying alphabetical prefixes for each organizational unit offering subjects to students in the Faculty of Medicine follow.

Prefix	Organizational Unit	Faculty/Board
ANAT	School of Anatomy	Medicine
ARTS	Faculty of Arts & Social Sciences	
BIOC	School of Biochemistry	Biological & Behavioural Sciences
BIOS	School of Biological Science	Biological & Behavioural Sciences
BSSM	Board of Studies in Science & Mathematics	
CHEM	School of Chemistry	Science
CMED	School of Community Medicine	Medicine
HEAL	School of Health Services Management	Professional Studies
MATH	School of Mathematics	Science
MDSG	Medicine/Surgery Clinical Studies	Medicine

MEED	School of Medical Education	Medicine
MFAC	Faculty of Medicine	
MICR	School of Microbiology & Immunology	Biological & Behavioural Sciences
OBST	School of Obstetrics & Gynaecology	Medicine
PAED	School of Paediatrics	Medicine
PATH	School of Pathology	Medicine
PHPH	School of Physiology & Pharmacology	Medicine
PHYS	School of Physics	Science
PSCY	School of Psychiatry	Medicine

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.

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

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 was a highly successful curriculum, 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 teaching hospitals and the student body. The Presiding Member 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, Obstetrics and Gynaecology, Paediatrics, Pathology, Physiology and Pharmacology, Psychiatry and the Clinical Schools in each of the Prince Henry/Prince of Wales Hospital, St George Hospital, St Vincent's Hospital and the South Western Sydney Area Health Service. Each of these Clinical Schools contains Departments of Medicine, Surgery, and Anaesthetics and Intensive Care. The Faculty is supported in its operations by the Centres for Continuing Medical Education, Immunology, National Drug and Alcohol Research, Public Health, as well as a Mass Spectrometry Unit, a Biomedical Electron Microscope Unit, a Medical Illustration Unit, a Carcinogenesis Research Unit, the National Centre in HIV Epidemiology and Clinical Research and the National Centre for HIV Social Research. The Faculty is also affiliated with the Garvan Institute for Medical Research at St. Vincents Hospital, the Prince of Wales Medical Research Institute at the Prince of Wales Hospital, the Childrens Leukaemia and Cancer Research Unit at the Prince of Wales Children's Hospital and the Skin and Cancer Foundation.

Committee Structure

Faculty of Medicine
Executive Committee of Faculty
Higher Degree Committee
Admissions and Re-enrolment Committee
Curriculum Committee and its various Sub-Committees
BSc MBBS Course Committee
BA BSc(Med)MBBS Course Committee
BSc (Med) Hons Course Committee
Dean's Advisory Committee
Faculty Resources Allocation Advisory Committee
Assessment Committees
Course Evaluation Committee
Faculty Research Advisory Committee
Hospital Boards of Medical Studies
School Advisory Committees
Biomedical Library Advisory Committee
Teaching Hospital Library Advisory Committee
UNSW Oncology Advisory Committee
Faculty Academic Promotions Committees
Centre for Continuing Medical Education Management Committee

Centre for Immunology Advisory Committee
 National Centre in HIV Epidemiology and Clinical Research
 Management Committee
 Centre for Public Health Management Committee
 Children's Leukaemia and Cancer Research Advisory
 Committee
 National Drug and Alcohol Research Board of
 Management
 Medical Illustration Unit Advisory Committee
 Australian Postgraduate Awards Committee

Costs in Addition to Fees

Details of fees have been provided in the Guide to Students 1993 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
Ophthalmoscope	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.

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.

There are differing requirements for general education for students commencing before, in, and after 1988. Students must complete a program of general education in accordance with the requirements in effect when they commenced their degree program. Students should consult the appropriate course authority or the Centre for Liberal and General Studies in Morven Brown Building, Room G58.

The program requires students to undertake studies in three categories of the program: The key questions addressed by the Program are:

Category A: The External Context: An introduction in non-specialist terms to an understanding of the environments in which humans function.

1. Australia and the Development of the World Economy. How do we, can we, generate wealth?
2. Human Inequality. How can we, ought we, distribute wealth, status and power?
3. Science and Civilization. What steps should we take, and what policies should we adopt, in science and technology?
4. Ecosystems, Technology and Human Habitation. What effects do our wealth generating and techno-scientific activities have on the environment?
5. Mass Media and Communication. What are the effects of the new mass media of communication?
6. Australian Society and Culture.. What are the key social and cultural influences on Australia today?

Category B: The Internal Context of Assumptions and Values: An introduction to, and a critical reflection upon, the cultural bases of knowledge, belief, language, identity and purpose.

1. The Self and Society. How do we define ourselves in relation to the larger human community?
2. Changing Conceptions of Human Nature and Well-Being. How do our conceptions of human nature and well being influence both individual and social behaviour?
3. The Pursuit of Human Rationality. What are the prevailing conceptions of and challenges to human rationality?
4. The Use of Language, Images and Symbols. How do language, images and symbols function as means and media of communication
5. The Computer: Its Impact, Significance and Uses What is the impact of the computer on human society and culture?
6. Beliefs, Values and the Search for Meaning. Which systems of belief and configurations of values are most conducive to the survival and enhancement of the human species and the planet earth? 28 hours

Category C: An Introduction to the design and responsible management of the human and planetary future: An introduction to the systems over which human beings exercise some influence and control. This category is required only of students in four-year professional and honours programs

The central question to be addressed by students in a systematic and formal way is: For what purpose or purposes will I use my intellectual skills, my expertise, or my technological prowess?

Will these abilities be used, for example:

- in a creative and innovative way?
- to widen the circle of human participation in the benefits they bring?
- to break down the barriers of exclusion and discrimination?
- to enhance the prospects for survival of the human species?
- to enhance the capacity of the planet earth to sustain life?

In the Faculty of Medicine the Category C requirement is met in the following way:

1. In Year 3 students take the subject CMED3001 Medical Ethics and Health Law.
2. In Years 4 and 6 students participate in Category C ethics and social responsibility seminars in each of the teaching hospitals.
3. In Year 5 issues concerning ethics and social responsibility are included in the formal teaching in each of the terms of Psychiatry, Obstetrics and Gynaecology, and General Practice/Geriatrics.

Students With Disabilities

The University of New South Wales has a policy of equal opportunity in education and seeks wherever possible to ensure maximum participation of students with disabilities.

The University offers a range of assistance: examination support; specialised equipment; educational support; parking provisions; library assistance.

A Resource Guide for students and staff with disabilities and a map showing wheelchair access is available from the Adviser to Students with Disabilities, the EEO Unit, the Library and the Students Union.

It is advisable to make contact with the Adviser to Students with Disabilities prior to, or immediately following enrolment, to discuss your support needs. The Adviser can be contacted on 697-5418 or at the Student Services Huts, Physics Road (near Barker Street).

Each School of the Faculty of Medicine also has a contact officer for students with disabilities.

University Policy On Equal Opportunity In Education

The University of New South Wales has a policy of equal opportunity in education (EOE), a copy of which can be obtained from the Equal Opportunity Office or the Student Services Branch.

Schools, Departments and Committees of the Faculty of Medicine closely monitor course content; curriculum design; teaching and assessment, and printed and audiovisual material to ensure that they are not

discriminatory or offensive, and to ensure the provision of equality of educational opportunity to all students.

The Faculty of Medicine also sponsors remedial English classes for those students disadvantaged by English communication difficulties. (Details can be obtained from the Faculty Office.)

The Faculty of Medicine also operates special admission schemes for disadvantaged students (ACCESS Scheme); students of aboriginal descent, and refugee medical practitioners.

The Faculty of Medicine has also established a Committee of Women Academics who, as part of their brief, monitor any special problems that may arise for female medical students.

Teaching Campuses

The Eastern Sydney Area Health Service

Principal Teaching Hospitals

Prince Henry Hospital,
Anzac Parade, Little Bay 2036
Telephone 661 0111, Facsimile 661 8853

Prince of Wales Hospital,
High Street, Randwick 2031
Telephone 399 0111, Facsimile 399 6191

The Hospital group, comprises 913 beds on two sites (Prince Henry 468, Prince of Wales Adult 445).

All medical specialities other than obstetrics are provided at a tertiary level by the Hospital Group. The Group is closely linked with the Community and Health Services Programs of the Eastern Sydney Area Health Service. Facilities include a comprehensive Oncology Service with medical, surgical and radiotherapy elements combined into an Institute of Oncology; comprehensive neurological and neurosurgical services combined into an Institute of Neurosciences with strong links to the State's only Neuropsychiatric Institute; Spinal Injuries Unit; Lithotripsy; AIDS Special Care Unit; a Geriatric Assessment Unit and a newly formed Psychogeriatric Academic Unit. The senior medical staff numbers over 350 and junior medical staff 342 (including 120 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 the 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. Both Prince Henry and Prince of Wales Hospitals have a Medical Library.

The Prince of Wales Children's Hospital

High Street, Randwick 2031

Telephone 399 4450 Facsimile 399 2136

This is a paediatric tertiary referral hospital serving the whole of the state, one of two such Children's Hospitals in N.S.W. It comprises 202 beds of which 164 are located at The Randwick campus and the remainder at the Prince Henry Hospital. It 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 and has strong links with complimentary adult services of the Prince Henry and Prince of Wales Hospital Group.

There is a care-by-parent unit providing accommodation for parents and siblings and a Ronald McDonald House is under construction to provide additional care-by-parent accommodation. There is limited student accommodation with access to all student facilities, including the Medical Library of the Prince Henry and Prince of Wales Hospital Group.

The St Vincent's Hospital

Victoria Street, Darlinghurst 2010

Telephone 339 1111, Facsimile 332 4142

St Vincent's Hospital is the principal ecclesiastical hospital in New South Wales and is under the trusteeship of the Sisters of Charity. It was founded in 1857 and moved to the 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, library and pathology museum.

The St Vincent's Hospital has 500 available beds on a single campus. It is an acute general Hospital with highly developed specialist units in most areas of medicine and surgery. The Hospital provides referral services for New South Wales and Australia and services for the local community. Specialty services at the Hospital include cardiac transplantation, bone marrow transplantation, a Cancer Centre which provides an integrated approach to the management of malignancy and a comprehensive AIDS service. Sophisticated diagnostic departments which include radiology, all branches of pathology and nuclear medicine support the clinicians of the Hospital. Extensive primary and secondary services are also provided to meet the needs of the local community and these include medical, surgical, geriatric and drug and alcohol services.

Research is undertaken in the Garvan Institute of Medical Research, Professorial Departments, the Department of Clinical Pharmacology and the Anxiety Disorders Unit. There are 8 Chairs at the Hospital which include medicine, surgery, cardiology, endocrinology, immunology, psychiatry, clinical pharmacology and chemical pathology. The visiting medical staff numbers 100, the salaried staff 70 and the resident medical officers 150.

St. Vincent's Hospital is part of the integrated Campus of the Sisters of Charity which comprises St. Vincent's Private Hospital (250 beds), Sacred Heart Hospice (100 beds), the

Garvan Institute of Medical Research and St. Vincent's Clinic.

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 91, and the salaried and resident medical staff 20.

The Hospital, of 204 available beds, is managed by the Eastern Sydney Area Health Service. Prior to July 1992, the Hospital functioned under the auspices of the Benevolent Society of NSW, which established Australia's first lying-in hospital in central Sydney in 1866. The first medical undergraduate students came to this Hospital in 1888 and the present Paddington 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 Archim Zondeck Pregnancy Test was performed in Australia at the Royal Hospital for Women. In 1948 the Royal established Australia's first Cancer Detection Clinic and in 1984 the first Chorionic Villus sampling was performed at the Hospital.

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

The Gynaecological Oncology Centre has a world wide reputation for its standing in work on ovarian cancer and gynaecological oncology.

The NSW Department of Health is currently determining the future of the hospital, which is likely to involve its being rebuilt on another site in the eastern suburbs of Sydney.

Associated Teaching Hospitals**The Royal South Sydney Hospital**

Joynton Avenue, Zetland 2017

Telephone 697 8200, Facsimile 662 2219

The Royal South Sydney Hospital is a tertiary referral hospital for rehabilitation, with a particular interest in industrial rehabilitation, as well as amputees, hemiplegic and head injuries. It is accredited as a WorkCover provider and has 10% of the NSW market for rehabilitating injured workers back into the work place. There is a rehabilitation engineering unit with a particular interest in seating and gait problems. Associated with rehabilitation is an occupational health unit which carries out risk assessments, training and general occupational health work.

The hospital provides primary and secondary care for its surrounding industrial area, and for its residents. Industrial injuries are a feature of this work.

Patients requiring operative surgery are referred to Prince of Wales Hospital.

Visiting medical staff numbers 6, salaried specialists 3 and resident medical staff 5.

St Margaret's Hospital

435 Bourke Street, Darlinghurst 2010
Telephone 333 4000, Facsimile 360 1713

St Margaret's Public Hospital is currently planned to close at the end of June 1993.

The Hospital commenced operating 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. In 1988 St. Margaret's became a teaching hospital of The University of New South Wales.

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, Facsimile 233 1360

Sydney Hospital, the first hospital in Australia, was established at Dawes Point shortly after the arrival of the First Fleet in 1788. It was transferred 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.

Sydney Hospital (incorporating Sydney Eye Hospital) has 117 beds and a 24 hour Accident and Emergency service. It provides inpatient and outpatient services in general medicine, general surgery, orthopaedics, ENT, hand surgery, and ophthalmology. There are 70 visiting medical staff, 7 staff specialists and 45 resident medical officers (including Sydney Eye Hospital).

Located on the Sydney Hospital site is the Sydney Sexual Health Centre and the Occupational Health and Safety Centre. The Hospital Complex also includes the Sydney Eye Hospital, the Albion Street (AIDS) Centre in Surry Hills, and the Kirkton Road Centre in Kings Cross.

Sydney Eye Hospital, including the Sydney University Department of Clinical Ophthalmology is situated in Woollomooloo and has 65 beds.

A Department of Communicable Diseases (Venerological Sciences), jointly administered by the University of Sydney and the University of New South Wales, is to be established at Sydney Hospital in 1992.

The Hospital has a medical library of full teaching hospital standard and a medical staff common room but provides no accommodation. The campus is undergoing major refurbishment including construction of a new ward block. When completed, the Hospital Complex will have a total of 110 beds.

Sacred Heart Hospice

170 Darlinghurst Road, Darlinghurst 2010
Telephone 361 9444

The Hospice was established in 1890. It is owned and governed by the Sisters of Charity of Australia and is a public hospital. 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 350 1111, Facsimile 350 3999

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 Hospital is undergoing a major redevelopment to increase bed capacity from 483 to 650 public hospital beds by 1994. A 240 bed private hospital is also being constructed. The Hospital covers all major specialties apart from spinal injuries. A Cancer Centre including radiotherapy will open in 1993.

The Hospital is staffed by 91 Visiting Medical staff, 56 Staff Specialists, and 177 Resident Medical staff. 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, Facsimile 789 3450

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 158 approved beds and has a very busy accident and emergency department with over 24,000 occasions of service every year. The Hospital also has a 25 bed geriatric rehabilitation unit, and a 10 bed Day Procedure Unit.

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 8, salaried 6 and resident medical staff 30.

Sutherland Hospital Caringbah

Kingsway, Caringbah 2229

Telephone 540 7111, Facsimile 540 7197

The Sutherland Hospital Caringbah, founded in 1955, is an associated teaching Hospital of the University of NSW. It is a general medical, surgical and obstetric hospital. There are also psychiatric and rehabilitation units, a 22 bed paediatric ward, and busy emergency department.

The Hospital has 345 beds. There is also a well equipped library.

Based in the rapidly expanding South Eastern suburbs, the hospital serves an approximate population of 200,000.

The Hospital is staffed by 75 visiting medical staff, 16 staff specialists and 48 resident medical staff.

Calvary Hospital Kogarah Inc

91-101 Rocky Point Road (Cnr Fitzgerald Avenue), Kogarah 2217

Telephone: 587 8333

Calvary Hospital Kogarah Inc is a Third Schedule Public Hospital conducted by the Sisters of the Little Company of Mary. The Hospital was opened in 1966 and provides multidisciplinary palliative care services for 78 inpatients with another 13 beds for day-only admissions in the Day Hospital. There is a Community Palliative Care Team offering holistic, family-oriented care to people with terminal illnesses who choose to live at home, and an Outpatient Pain Clinic.

The Hospital offers courses in palliative care to nurses and to hospital staff from other institutions. Training courses for volunteers in bereavement counselling and other aspects of palliative care are also offered.

The South Western Sydney Area Health Service

Telephone 821 5700, Facsimile 601 8501

The South Western Sydney Area Health Service became a Principal Teaching Campus of The University of New South Wales in early 1989 and Liverpool Hospital is being upgraded to provide district, teaching and referral services.

To date the University has a presence in the fields of adolescent and mental health, medicine, surgery, pathology and microbiology, community paediatrics, anaesthetics and intensive care and community medicine-general practice, public health, health promotion, rehabilitation and geriatrics and drug and alcohol services.

The Area is responsible for the management of health services within Sydney's south west. This is an area which combines the older urbanised local government areas of Bankstown and Liverpool, with the urban growth areas of Fairfield and Campbelltown, the residential growth areas of Camden and the mostly rural Wollondilly.

The area is characterised by a predominantly young population and contains a number of ethnic communities. Over the next 10 years, the Area Health Service is expected to grow by 220,000 people and presently has a higher than average birth rate than the rest of New South Wales.

The public hospitals and nursing homes managed by the South Western Sydney Area Health Service are: Bankstown-Lidcombe Hospital (a "group" hospital), Camden, Campbelltown, Fairfield, Liverpool, Queen Victoria Memorial (Picton). There is one Third Schedule institution: Carrington Centennial Nursing Home.

The Area Health Service remains committed to the integration of community health and hospital services in order to provide a comprehensive service to its population, which is expected to grow to more than 1 million people by 2011.

Principal Teaching Hospital**Liverpool Health Service**

Liverpool Hospital and Liverpool Community Health Service

Elizabeth Street, Liverpool 2170

Telephone 600 0555, Facsimile 600 9382

There has been a hospital in Liverpool since the early nineteenth century. The present hospital has 419 beds and provides services in medicine, surgery, intensive care, anaesthetics, emergency medicine, paediatrics, obstetrics and gynaecology, psychiatry, geriatrics, rehabilitation, and a range of allied health disciplines. It is a major trauma centre and is developing as the tertiary referral centre for the South Western Sydney Area. A full range of pathology services is provided on site by the Area Pathology service. Specialty medical training is provided in most services, and research activities are rapidly expanding. Academic units have been established in most specialties.

There is a strong community orientation and close links with the Liverpool Community Health Service and South Western Sydney Public Health Unit. A Department of General Practice has been formed by local GP's. There are good residential and recreation facilities on the hospital grounds and a well equipped library. There are well developed education programs for both undergraduates and postgraduates.

A major building program is under way which will see the hospital redeveloped to 514 beds by 1996. A new Community Health Centre is being built at Hoxton Park to be opened in 1993.

Associated Teaching Hospitals**The Bankstown-Lidcombe Health Service**

Bankstown Campus and Bankstown-Lidcombe Community Health Service

Eldridge Road, Bankstown 2200

Telephone 790 0444, Facsimile 708 1759

The Bankstown campus of the Bankstown-Lidcombe 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 then Premier in August 1980.

The Campus provides basic medical care of a high standard, primarily to the City of Bankstown which is a

thriving community of about 158,000 people (catchment area 180,000).

The Campus has a total of 321 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 49 resident medical staff. It provides patient care in the areas of medicine, surgery, obstetrics and gynaecology, psychiatry and paediatrics and has one of the busiest casualty units in Sydney.

The Campus 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 community health services being provided.

The Campbelltown Health Service

Campbelltown Hospital and Campbelltown Community Health Service

Therry Road, Campbelltown 2560

Telephone 046 25 9222, Facsimile 046 29 1338

Campbelltown Hospital is a general, maternity, and psychiatric hospital situated in the City of Campbelltown in the South Western suburbs of Sydney..

This modern Hospital provides a high standard of general medical care to the surrounding population of nearly 200,000 with a predominance of young families. The area has one of the highest growth rates in the State and the Hospital is committed to the continued provision of high standard community, inpatient and emergency medical care as the population expands.

Campbelltown Hospital has 210 beds providing general medical and surgical, obstetrics and gynaecology, paediatric, psychiatric and anaesthetic services. This includes a 5 bed intensive care/coronary care unit, a very busy 30 bed paediatric unit with a 15 bed Level II special care nursery and a 24 hour Accident and Emergency Service. Day Procedure facilities are provided by a very active free standing Day Surgery Unit. The Unit has two operating theatres and one procedure room and currently performs approximately 4500 procedures a year.

Planning is well underway for the establishment of a comprehensive Orthopaedic service at Campbelltown which is due to commence in September 1992.

As part of the Campbelltown Health Service, the Hospital is involved in the co-ordination and development of community health services in Campbelltown.

The Fairfield Health Service

Fairfield Hospital and Fairfield Community Health Service
Cnr Polding Street and Prairievale Road, Wetherill Park 2164

Telephone 609 8111, Facsimile 609 8240

Fairfield Hospital is a 224 bed facility and provides services in general medicine, general surgery, maternity, paediatric and rehabilitation. Located on the Fairfield Hospital Campus also are the following Area Services: General Practice Unit, Interpreter Service, Ethnic Obstetric Liaison Service.

The Fairfield Hospital opened in November 1988 and provides, with the Community Health Service, health services for the Fairfield Local Government Area community. In addition, the Hospital has a Level II Special Care Nursery, a 24 hour Accident and Emergency Service,

a 10 bed special ICU and Trauma Service and has in place an Early Discharge Programme for well mums and babies.

The South Western Sydney Area's General Practice Unit is located at Fairfield Hospital. This Unit commenced in 1991 and is run jointly with the University of NSW and contains a Professor of General Practice. It provides general practice style service for patients and staff of the Hospital. It also acts as a centre for education of existing and future general practitioners in the Area and liaises between the Hospital and general practice.

The Illawarra Area Health Service

Telephone (042) 75 5111, Facsimile (042) 76 1447

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 estimated total population of the Illawarra is 304,309 (Australian Bureau of Statistics 1991) which comprises 5.31% of the total New South Wales population.

The Illawarra Area Health Service provides a range of comprehensive services throughout the networking arrangement between the smaller public hospitals and the Illawarra Regional Hospital.

The Area Health Service has an agreement with the University of New South Wales for the Health Service to be an Associated Teaching Campus of The University.

Associated Teaching Hospitals

The Illawarra Regional Hospital

The Illawarra Regional Hospital is the major referral Hospital for the Illawarra and South Coast. It has 417 beds across two campuses.

Wollongong Site

The Wollongong campus provides accident and emergency, specialist medical and surgical, including specialist vascular surgery, intensive care, major diagnostic services, psychiatry, obstetrics and paediatric services for patients referred from throughout the Illawarra. The Wollongong Campus redevelopment, currently under construction, will be completed at a total cost of \$83 million. Improved diagnostic facilities will be included in the development. A comprehensive Cancer Care Centre has been established at the Wollongong campus.

Port Kembla Site

The Port Kembla campus provides district level services for the surrounding suburbs, including primary and emergency services with elective facio-maxillary surgery and medical and surgical services. It is also a specialist referral hospital in orthopaedics, acute rehabilitation and geriatric assessment for the Illawarra Region.

Shellharbour Hospital

The 124 beds Shellharbour Hospital (5 of which are High Dependency), works in close co-operation with the Kiama Day Services Hospital in providing services to the surrounding district.

The Hospital provides accident and emergency, medical, surgical, psychiatric, obstetric and outpatient child and family development health services. The G.P. Training Centre is also based at this Hospital.

Klama District Hospital

The Hospital provides community clinic and Day Care Services.

Shoalhaven District Memorial Hospital

Shoalhaven Hospital has 104 beds. It is the major hospital for the Shoalhaven, providing accident and emergency, primary care, obstetrics, paediatrics, medical and surgical services.

Redevelopment to provide new operating theatre, recovery and CSSD facilities is currently in progress.

Milton-Ulladulla Hospital

The Milton-Ulladulla Hospital is a 20 bed district hospital servicing the primary and emergency care needs of the southern sector of the Shoalhaven.

Bulli District Hospital

The Bulli District Hospital, which has 79 beds, is the community hospital for the northern suburbs of Wollongong, providing emergency care, medical, surgical with specialist ENT and palliative care services.

Coledale Hospital

The Coledale Hospital, which has 40 beds, specialises in geriatric care and rehabilitation.

David Berry Hospital

The David Berry Hospital is a 24 bed community hospital in Berry, near Nowra, providing slow stream medical and palliative care.

The Biomedical Library

The Biomedical Library provides library services for staff and students from the Faculties of Medicine and Biological and Behavioural Sciences, the Schools of Applied Biosciences, Health Services Management, Fibre Science and Technology and the Department of Safety Science. It is closely associated with the libraries of the teaching hospitals of the University.

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 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 through the Reader Assistance Unit.

Serials in the Biomedical Library are now shelved in alphabetical order by title and carry the prefix "MB". Details

about Biomedical Library books, serials and audiovisual material can be found in the Library's on-line Catalogue.

The Biomedical Library offers the following facilities: computerised literature searches; a wide range of databases on CD-ROM; remote access to databases on CD-ROM and current contents (life sciences, clinical sciences and agriculture, biology and environmental sciences) throughout the campus wide network; access to the Family Medicine Program (MCQ self assessment); interlibrary loans.

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, harbour cruises, barbecues, hospital parties, the 'Med Ball' and the Anzac Day sports day.

A newsletter *Idioglossia* 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-Presidents 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 Council 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 390 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 the first Tuesday of each month at 5.30 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.

Selection into the Faculty of Medicine

Entry is competitive and applications are considered and assessed on academic merit. There is no special provision for 'mature age entry' to Medicine.

There is a small intake quota for applicants who have partially completed tertiary studies. 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. 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 Students

Applicants from overseas may only compete for entry to the medical course as either fee paying students or as holders of a scholarship awarded by the Australian Government. Enquiries regarding admission of overseas students should be directed either to the Director of International Programs 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 Australian Government scholarships should be directed to the local Australian Diplomatic Mission.

Prerequisite Requirements

The most suitable Higher School Certificate studies (or equivalent) 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 (or equivalent) Mathematics. There are also first year subject prerequisites of HSC (or equivalent) English and

Chemistry. The following prerequisite requirements were current at the time of publication. Please note that it is likely that the HSC English prerequisite level will be higher for entry to the course as of 1994, and that the current subject prerequisites in English and Chemistry may become course prerequisites.

Course prerequisites

HSC Mathematics:

2U(60-100) or,
3U(1-50) or,
4U(1-100)

Subject prerequisites

HSC English

Contemporary English (68-100) or,
2U(General) (53-100) or,
2U(49-100) or,
3U(1-50)

HSC Science:

2U(Chemistry) (67-100) or,
3U(90-150) or,
4U(1-50)

For applicants seeking selection solely on the basis of their aggregate HSC (or equivalent) score and who have the necessary aggregate mark and meet the course prerequisite in Mathematics, 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 high school program as a knowledge of this discipline is useful in the first years of the medical course. Students who have not included Physics in their high school 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, or at least before commencing the second year of the normal medical course. There is also an assumed knowledge of basic organic chemistry. A knowledge of Biology is also desirable.

It should be noted that it is assumed that students have an adequate command of English language communication skills upon enrolment. Those students who feel they may lack skills in this area should consult with their lecturers or tutors, or staff of the Faculty

Office, who can arrange special English language support classes. Students who do not have adequate English language communication skills may not be permitted to progress in the course.

Admission of Aboriginal Students

The Faculty may admit suitably qualified persons of Aboriginal descent outside any quota restrictions. Further information regarding the Scheme may be obtained from the Co-ordinator, Aboriginal Education Program on 398 2663.

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 5434.

Admission of Refugee Medical Practitioners

A special scheme exists for the admission of refugee medical practitioners. For further information regarding this scheme, contact the Faculty of Medicine office on 697 2457.

Application Procedures

Applications should be directed to the Universities Admissions Centre, Locked Bag 500, Lidcome, 2141, Telephone 330 7200. 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.

3801

Medicine Course

BSc(Med) MBBS

This six year course leads to the award of the degrees of Bachelor of Science (Medicine), Bachelor of Medicine, Bachelor of Surgery - BSc (Med) MBBS.

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 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 3801 (BSc(Med)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 BSc (Med) with Honours. [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 an assessment 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. After the Assessment Committee meets further assessment may be given to allow the Assessment Committee to resolve a doubt. (In Years 1, 2, 3, 4, and 6 such assessment is usually undertaken in the following January and February.) Such 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.

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. A student who fails one term may be required to repeat that term in a six week remedial period immediately following Term 5:4. Students are warned that they may be required to undertake such additional assessment and should take this into account if making travel arrangements for the period after the end of Term 5:4.

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.

Student Photographs and Identification Badges

In Year 1 of this course, 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.

Please note that Faculty's policy on the immunisation of medical students is currently under review. If changes to the above practice eventuate, students will be informed.

Course Details

Year 1

This year is conducted in two academic sessions and consists of four subjects plus two General Education electives, as shown in the table below.

ANAT1006 Anatomy 1
 BIOC1319 Biochemistry for Medical Students
 MFAC1001 Introductory Clinical and Behavioural Studies
 PHPH1004 Biology for Medical Students
 General Education electives

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 particularly 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, other than any General Education subject(s) passed.

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.

ANAT1006

Anatomy 1

Staff Contact: Dr D. Vu

S1 HPW5 S2 HPW7

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 tissue histology to be able to undertake successfully more detailed studies of histology and embryology in Year 2.

An introductory subject in human anatomy, embracing the disciplines of gross anatomy (topographical anatomy) and histology. 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).

Assessment: There is a mid-year assessment and two mid session assessments which contribute to the final assessment for the subject but do not constitute barriers.

BIOC1319

Biochemistry for Medical Students

Staff Contact: Dr V. Murray

S1 HPW6 S2 HPW6

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 throughout the year.

MFAC1001

Introductory Clinical and Behavioural Studies

Staff Contact: Dr P. McNeill

S1 HPW3 S2 HPW5

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; to develop interviewing skills; to gain experience in and understanding of the group process; 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 practice communication skills in a tutorial group and conduct an interview which is recorded on audio tape and assessed. They also complete a Biography based on a series of interviews with a person who is suffering with a major illness or trauma. The Biography is a broad history which takes into account the patient's health problem, psychological makeup and social circumstances and the patient's experience with health care professionals.

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 assess communication skills and the ability to take a broad social-psychological history. Students identified as having English language difficulties may be required to complete an additional remedial English course. Participation in tutorials and a group project is assessed and there is an examination at the end of Session 2 on the material covered in lectures. There is no mid year assessment. Students must pass the end of year written examination and the communication skills assignments to progress to Year 2.

PHPH1004

Biology for Medical Students

Staff Contact: Dr G. Courtice

S1 HPW4

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; introductory genetics; invertebrates; parasites; ecology, evolution; comparative anatomy and physiology.

Assessment: Assessment is based on an examination at the end of Session 1; and some continuous assessment during the session.

Year 2

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.

ANAT2007 Anatomy 2
 BIOC2329 Medical Biochemistry and Genetics
 MDSG2001 Clinical Studies 2
 PHPH2018 Medical Physiology 1
 PSCY2101 Human Behaviour

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.

Year 2 Subject Descriptions

For further information regarding these subjects contact the subject authorities.

ANAT2007 Anatomy 2

Staff Contact: Dr E. Tancred
 S1 HPW7 S2 HPW7

Objectives: To gain knowledge and understanding of the gross and microscopical structure of the internal organs and the brain; to be able to correlate embryonic development with the structure of normal 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. The course consists of four subcourses, each having separate lectures and

tutorials: Gross Anatomy, Histology, Embryology, and Neuroanatomy. Gross Anatomy and Histology are taught in Session 1, Neuroanatomy and Embryology are in Session 2. Neuroanatomy 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 (S1), Embryology (S2), Gross Anatomy (S1) and Neuroanatomy (S2). At the end of Sessions 1 and 2 there is a viva voce examination in Histology and in Embryology respectively. Students must pass each component of the course to pass the whole course.

BIOC2329 Medical Biochemistry and Genetics

Staff Contact: A/Prof P. Schofield
 S1 HPW4.5 S2 HPW4.5
Prerequisite: BIOC1319

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 acid metabolism, recombinant DNA procedures, gene probes, pedigree analysis, inborn errors of metabolism, X- and Y-linked inheritance, human cytogenetics. Clinical material illustrates the principles being studied and underlines 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 the contents of both lectures and audiovisuals.

MDSG2001 Clinical Studies 2

Staff Contact: Prof J. Dwyer
 S1 HPW2 S2 HPW2

Objectives: To extend knowledge and understanding of normal structure and function by demonstrating the disturbances which occur in disease. These studies are closely integrated with Anatomy, Physiology and Biochemistry so that the application of basic medical science to the clinical situation can be clearly seen. Students will attend a principal teaching Hospital for half a day each week to see patients from whom they will take histories. During this time there will be one group tutorial for the presentation and discussion of clinical histories and the demonstration of clinical signs. In these sessions, students will acquire the ability to take a clinical history from a patient with an uncomplicated medical problem, present the history, both orally and in writing, using clear unambiguous medical terminology and in a standard form.

To demonstrate how symptoms and signs can be interpreted as disorders of function and how this knowledge aids in the process of diagnosis. By the end of the year it is important that students have the ability to take a basic medical history and have seen a number of examples of disordered anatomy and physiology.

Assessment: Examination of two written clinical histories per session and examination of a student's ability to present these histories orally. There is an emphasis on communication skills. Additionally, there will be continuous assessment by tutors. Students who fail to reach a satisfactory standard will be required to undertake further assessment which may include a clinical and *vive voce* examination.

PHPH2018

Medical Physiology 1

Staff Contact: A/Prof R. Holland

S1 HPW8 S2 HPW8

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.

PSCY2101

Human Behaviour

Staff Contact: Dr C. Mason

S1 HPW3 S2 HPW3

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, social class and health; and a range of ethical topics including euthanasia, human and animal experimentation, the doctor and the state.

Assessment: In Session 1, assessment consists of two written examinations, a tutorial assignment, and a tutorial presentation. In Session 2, students are required to write a major essay on Bioethics, present a tutorial paper and sit a final written examination.

Year 3

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 and Health Law, 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.

CMED3001 Medical Ethics and Health Law

MDSG3001 Clinical Studies 3

MICR3228 Microbiology for Medical Students

PATH3101 Pathology

PHPH3014 Medical Physiology 2

PHPH3055 Medical Pharmacology

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.

CMED3001**Medical Ethics and Health Law***Staff Contact: Dr P. McNeill*

S2 HPW1.5

This subject builds on medical ethics presented in first year Introductory Clinical and Behavioural Studies and second year Human Behaviour, to give students additional preparation for ethical issues which arise in their placements in hospitals, general practice and community settings during years 3 to 6. The lectures give an overview of ethical principles and their application to specific issues including transplantation, predictive testing, withdrawal of treatment, and the rationing of limited health care resources. The subject also deals with professional responsibility in the law and there are lectures on the duty of care, privacy and confidentiality, and registration and de-registration of medical practitioners. Tutorials are based on material covered in lectures and apply principles to particular cases.

The overall aim of the subject is that students understand ethical principles and legal obligations as a part of their broader commitment to social responsibility and considerate treatment of patients in the practice of medicine.

Assessment: consists of two tutorial assignments and an essay (which total 50% of the marks) and an end of session examination (contributing a further 50%).

MDSG3001**Clinical Studies 3***Staff Contact: Prof J. Dwyer*

S1 HPW4 S2 HPW4

Objectives: To acquire and practice the skills of history taking and physical examination in order to elicit the features of common diseases. Interpretation of the mechanisms of production of the presenting signs and symptoms requires the integration of clinical skills with basic sciences, a concept introduced in Year 2.

Clinical Studies in Year 3 build on the experience obtained in Year 2 and introduce the student to clinically relevant pathophysiology, with particular emphasis on the mechanisms associated with the development of symptoms and physical signs which indicate disease. The components of the course are -

1. A series of lectures in medicine and surgery which introduce the student to the more common diseases and clinical problems, with emphasis on material relevant to history taking and to physical examination. The teaching builds on and compliments related discussions in physiology, pathology, pharmacology and microbiology. Where possible, the information supplied in Clinical Studies 3 is introduced at the time when it is most satisfactorily integrated with related material being presented by the disciplines. Students should be aware that the end of year written examination is based on questions derived from the material presented in the lecture program.

2. Students spend two afternoons a week at a principal teaching hospital for a surgical and medical tutorial. Tutors will be building on the communication skills learnt in the first and second years of the course. By the end of third year, students must be able to obtain a full history from patients in a disciplined and prescribed manner and present that history in either written or oral formats. In addition, students must complete at least one full history per week in their own

time to master these essential skills and these histories will be marked by tutors in Medicine.

Physical examination skills will be taught during the third year. Students are expected to master the routine associated with conducting an examination of the major body systems and be able to recognise and understand the significance of those major signs which indicate the presence of pathophysiology. Surgical and medical tutors will confer regularly to discuss the progress of their students and to identify particular problems, especially those associated with communication skills.

Assessment: Continuous assessment of clinical skills is carried out by surgical and medical tutors. Particular emphasis will be placed on communication skills. Students whose attendance and/or progress is deemed unsatisfactory may be precluded from participating in the end of year examinations, or be required to undertake additional clinical and *vive voce* assessment.

The end of year examinations will include a multiple choice question paper (MCQ) and an objective structured clinical examination (OSCE).

MICR3228**Microbiology for Medical Students***Staff Contact: Dr N. Lee*

S1 HPW4 S2 HPW4

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.

PATH3101**Pathology***Staff Contact: Prof A. Lykke*

S1 HPW6 S2 HPW4

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 PATH3101 comprises an introduction to the basic disease processes (General Pathology), i.e. 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. 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 30% and 70% 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.

PHPH3014

Medical Physiology 2

Staff Contact: Dr B. Nail
S1 HPW4 S2 HPW4

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.

PHPH3055

Medical Pharmacology

Staff Contact: A/Prof I. Neering & Dr D. Jamieson
S1 HPW4.5 S2 HPW4.5

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.

Year 4

Year 4 of the course is essentially based in the teaching hospitals and comprises 6 terms totalling 41 weeks. Of these weeks, 36 will be spent in the Hospital and 5 will be spent on campus. For the majority of the year, students will work as part of a health-care delivery team. The students' responsibilities as part of that team will be increased gradually as new skills are acquired. The philosophy inherent in education by attachment to a hospital team is important. Learning 'on the job' exposes students to real clinical situations incorporating both the medical and social implications of disease and allows the continued development of counselling skills. Thus, students will learn that hospital care should be linked to continuing care in the community, and that there is much emphasis in modern medicine on rehabilitation to maximise a patient's chances of resuming their normal role in society. Reading about pathological processes, combined with team discussion of problem patients, provides the ideal environment for the retention of new knowledge.

The teaching of Community Medicine is integrated with clinical studies in the teaching hospitals and is a part of the campus teaching program.

The Pathology course comprises a component of didactic teaching within the framework of the common campus program and a major hospital-based component taught through a tutorial program.

The subject of Clinical Pharmacology (Therapeutics) is introduced during the common campus program and reinforced during discussions of patient management as part of student attachments to clinical units.

At the commencement of fourth year, each student will receive a syllabus containing details of the integrated program for Clinical Studies, Pathology, Clinical Pharmacology and Community Medicine.

Rules of Progression

Students will be required to pass each of four separate segments of the assessment, namely: a pass in the Community Medicine continuous assessment, a pass in the Pathology viva, a pass in a Long Case clinical examination, and a pass in the combined written papers.

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.

Year 4 Subject Description

MDSG4001

Integrated Clinical and Community Studies

Staff Contact: Prof J. Dwyer

Objectives: By the end of 4th Year, students will be expected to have mastered the skills in communication, history taking, and physical examination. Students will be able to generate a list of the patient's problems which includes the physical, emotional and psychosocial aspects of the case. For each problem, students will develop a plan for problem resolution. Students will learn much about management and drug treatment during the 4th Year but only introductory aspects of therapeutics will be assessed at the end of the 4th Year. As 4th Year attachments will not be repeated in 6th Year, students must make the most of their opportunity to learn the management and therapeutic principles which they see in practise during their attachment.

Students will be expected to interpret symptoms and signs in terms of disorders of structure and function; to understand the pathological basis of symptoms and signs; to know what special investigations are appropriate for the investigation of a problem and how to interpret the results, and to understand the social and preventative aspects of disease. The major component of the 4th Year program is the clinical attachment. Students will be assigned to a specific hospital team for a term. There will be six terms and all students will spend one of these at Liverpool Hospital. The Liverpool program will focus on general medicine and surgery and will include Community Medicine and Pathology. Program details may vary slightly at each of the main teaching hospitals responsible for the implementation of this program. Each hospital has a Clinical School Committee and a Board of Medical Studies, the latter including student membership, to oversee the Hospital's programs.

While students will necessarily be assigned to subspecialty units (e.g. cardiology, neurology, etc.), the attachment is not designed primarily to teach the student the details of that discipline, but rather, the approach to a patient's problems and their resolution is to be emphasised. This is an important consideration because, as subspecialty exposure in 4th Year cannot be uniform for all students, it is important that students are distributed to fully utilise the hospital's patients and ensure that they have sufficient contact with patients.

Structured teaching during clinical weeks will be limited. There will be regular sessions each week which will feature a discussion, with a member of the Faculty, of problem patients on the student's ward. Pathology tutorials will be held each week, and the one medical and one surgical lecture may be provided. The following skills are to be acquired during the 4th Year of the course and the acquisition of such skills will be noted in the student's logbook after an appropriate examination: intramuscular injection; use of ophthalmoscope; sterile technique; operating theatre procedures; simple suture and knot-tying; application of a plaster; changing of a surgical dressing; passage of a proctoscope; passage of a naso-gastric tube; spirometry; establishment and maintenance of an intravenous line; venesection; cardiopulmonary resuscitation; rectal examination; urinalysis; urinary catheterisation, ECGs and taking of blood pressure.

Community Medicine will be taught primarily during the common campus weeks and will include case studies, lectures and tutorials on changing patterns of disease, prevention, epidemiology, nutrition and a range of other community health problems. Case studies based on clinical cases from students' hospital attachments will be used to explore core issues in community medicine. This will demonstrate the application of community medicine principles covered in lectures and tutorials and will also reinforce links with other teaching in fourth year. At Liverpool Hospital, community medicine teaching will make use of the special relationship of this hospital to the community it serves.

Systematic pathology will be taught at all hospitals throughout the year and will be integrated with clinical teaching. The program includes one tutorial per week based on prepared clinical protocols (case presentations) which will explore the pathogenesis of those systematic diseases which were not covered in the context of the Year III teaching in Pathology, or which require greater depth of coverage. Students will be required to prepare and expand on the topics listed, by reference to their own ward cases, by consultation with staff of the various departments in Pathology, as well as by reference to their recommended textbooks and specialised text or journal articles. Each student will be expected to attend a minimum number of autopsy demonstrations during the year. Additional exposure to Pathology will be attained by student attendance at Grand Rounds and Clinico-Pathological Conferences.

Campus Weeks: To minimise interruptions to a student's role while attached to a clinical team, most structured teaching will be carried out during campus weeks. All students will attend the University campus for five weeks throughout the year, during which lectures in medicine, surgery, clinical pharmacology, pathology, and community medicine will be provided.

Community Medicine teaching will utilise the knowledge and experience gained during clinical attachments to elucidate basic principles of epidemiology, public health, and continuing care. The Pathology lectures and demonstrations will concentrate on the pathogenesis of complex disease processes which cannot be effectively covered in a tutorial format. An excursion to the NSW State Government Forensic Laboratory and Coronial Courts is a compulsory activity.

Where possible, days will be arranged so that a particular subject is approached in a multi-disciplinary way. A series of correlation clinics, held throughout the year during campus weeks, will further emphasise the interdisciplinary approach to understanding a subject.

Assessment: A multiple choice examination and a short answer paper will be given at the end of the year and will examine knowledge of Medicine, Surgery, Community Medicine and Pathology discussed during the campus program and from the directed reading section in the syllabus. Assessment of Community Medicine will also involve continuous assessment by assignments through the year and the student's participation and contribution to group work.

In addition to the written papers, a clinical examination will be held. This will require students to take, present, and discuss a patient's history and the results of a complete physical examination (long case examination). Patients with both medical and surgical problems may be assessed.

There will also be an integrated Pathology viva voce examination based on macroscopic specimens.

For a student to be eligible to sit for the examinations to be held at the end of 4th Year, they must have performed satisfactorily on each of their six clinical attachments, developed the required procedural and clinical skills (satisfactory performance in these areas must be certified in a student logbook) and successfully completed the continuous assessment requirements in Community Medicine. Tutors will be involved in continually assessing a student's progress. Those students who fail to reach a satisfactory standard may be precluded from sitting the end of year examinations, or be required to undertake additional clinical and *viva voce* assessment.

Year 5

Year 5 is comprised of 4 terms, each of nine weeks. In terms 5:1 to 5:4 students rotate through blocks of teaching in obstetrics and gynaecology, paediatrics, psychiatry, geriatrics, general practice and subspecialties, rather than studying the subjects concomitantly. For this purpose students are allocated to a particular group (A, B, C, or D) and will follow the programme of that group for the year.

The subjects studied in Year 5 are:

MFAC5001 Geriatrics/General Practice/Subspecialties
OBST5001 Obstetrics and Gynaecology
PAED5101 Paediatrics
PSCY5001 Psychiatry

Sequence of Blocks

Group A:

Term 5:1 (9 weeks) Geriatrics, General Practice, Subspecialties
Term 5:2 (9 weeks) Paediatrics
Term 5:3 (9 weeks) Psychiatry
Term 5:4 (9 weeks) Obstetrics and Gynaecology

Group B:

Term 5:1 (9 weeks) Paediatrics
Term 5:2 (9 weeks) Psychiatry
Term 5:3 (9 weeks) Obstetrics and Gynaecology
Term 5:4 (9 weeks) Geriatrics, General Practice, Subspecialties

Group C:

Term 5:1 (9 weeks) Psychiatry
Term 5:2 (9 weeks) Obstetrics and Gynaecology
Term 5:3 (9 weeks) Geriatrics, General Practice Subspecialties
Term 5:4 (9 weeks) Paediatrics

Group D:

Term 5:1 (9 weeks) Obstetrics and Gynaecology
Term 5:2 (9 weeks) Geriatrics, General Practice Subspecialties
Term 5:3 (9 weeks) Paediatrics
Term 5:4 (9 weeks) Psychiatry

Assessment and Rules of Progression

The work of each rotating block is assessed during or towards the end of the block. Students will be required to pass in all 4 term examinations before progressing to the sixth year. 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. A student who fails one term may be required to repeat that term in a six week remedial period immediately following Term 5:4. Students are warned that they may be required to undertake such additional assessment and should take this into account if making travel arrangements for the period after the end of Term 5:4. A student who fails two terms or more will be required to repeat Year 5 in full.

Preparation for Year 6 Elective Term

Arrangements for Elective attachments in Year 6 must be made by the students. Students should commence these arrangements early in Year 5, especially those wishing to undertake attachments overseas. See subject description for MFAC6001 on page 29.

Year 5 Subject Descriptions

MFAC5001

Geriatrics/General Practice/Subspecialties

Staff Contact: A/Prof M. Harris & Dr J. Frith

This nine week term will start with an introductory week of tutorials in Ophthalmology, Dermatology, Otorhinolaryngology and General Practice. The remainder of the term will consist of four two week teaching blocks in specialty outpatient clinics, geriatrics, rural general practice and urban general practice.

Geriatrics

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 written assessments and log book completion.

General Practice

By the end of the course the students will have:

1. An understanding of the knowledge, attitudes and skills required by a competent general practitioner.

2. Skills in communicating with patients especially in history taking and explaining.

3. Skills in identifying common problems in general practice.

4. Knowledge of the principles of management in general practice.

During the teaching sessions on campus and at Fairfield and during the attachments, students are introduced to: a frame of reference for general practice and the GP consultation; a problem solving approach including the ability to cope with uncertainty; responsiveness to the total patient and the patient's life; knowledge of community health resources; self assessment of communication and self directed learning.

The teaching will consist of introductory tutorials, a two week attachment in urban general practice, a day general practice skills workshop at Fairfield Hospital and a two week attachment in rural general practice.

Assessment: Students will complete an assignment during each of the attachments, a viva voce assessment and a written objective structured clinical examination in conjunction with the subspecialties.

Subspecialties

Ophthalmology

Objectives: To learn the basic skills of assessment of eye disease and visual impairment. To expose students to the common diseases and conditions of the eye and visual system, and, to management of the common conditions of the eye.

The teaching will be organised in skill transfer sessions in the clinical assessment of the eye and use of the ophthalmoscope and other eye instruments. There will also be tutorial classes. Students will also attend specialist clinics.

Otorhinolaryngology

Objectives: To learn the basic skills of the assessment of diseases and conditions affecting the ears, nose and throat. To expose the student to the common diseases of the ear and upper respiratory system and the management of these conditions.

The teaching will be organised in tutorial classes. Students will also attend specialist clinics.

Dermatology

Objectives: To learn the clinical symptoms and signs of the major conditions affecting the skin. To learn the diagnosis of common skin diseases and conditions and their management.

The teaching will be organised in tutorial classes. Arrangements will be made for students to attend special dermatology clinics.

Assessment: Students will be assessed through completion of a log attendance at subspecialty clinics and final written objective structured clinical examination in conjunction with general practice.

OBST5001

Obstetrics and Gynaecology

Staff Contact: Prof M. Bennett

Objectives: To be able to take a history and perform a physical examination relevant to the female reproductive system; to recognise common disorders of the female reproductive system; to manage common medical

gynaecological disorders likely to be encountered in primary care practice; to provide antenatal and postnatal care for normal women and to recognise 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. Supervised clinical experience is gained in outpatient clinics, inpatient services and the labour wards of The Royal Hospital for Women, St George, Bankstown, St Margaret's, Liverpool, Wollongong 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 an oral and written examination in the last week of term.

PAED5101

Paediatrics

Staff Contact: Prof H. Bode

Objectives: To understand the physical, emotional and intellectual development of normal children; to recognise the interactions between the child, the family and the community; to recognise when a child is acutely ill or showing abnormal development; to know how to provide acute primary care for a sick child; to recognise 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 and a clinical examination in the last week of term and progress assessment during the term.

PSCY5001

Psychiatry

Staff Contact: Prof G. Parker

Objectives: To be aware of the key symptoms, signs and syndromes of psychiatric disorder; to be able to take a history and conduct a mental state examination; to have acquired those skills necessary for a doctor in general or non-psychiatric specialised 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 development disability, forensic psychiatry, child psychiatry, transcultural psychiatry and psychogeriatrics; to be competent in prescribing psychotropic medications; and to be able to use simple behavioural techniques such as relaxation training.

Formal teaching seminars are held in the mornings and afternoons on the Monday and Tuesday of weeks 1-8. The

remaining days are spent at Prince Henry, Prince of Wales, St George, St Vincent's, Sutherland, Liverpool, Bankstown and Campbelltown 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 organised so that students receive the appropriate teaching of skills related to general hospital patients. Visits to appropriate community facilities are organised.

Assessment: A written examination is conducted on the first day of the last week of term, and viva voce examinations are carried out on the Tuesday and Wednesday of the same week. A liaison psychiatry report is also part of the assessment.

Year 6

The first term in Year 6 is an Elective term (MFAC6001). The remaining terms are devoted to the subject MDSG6002 Integrated Clinical Studies 6.

Year 6 Subject Descriptions

MDSG6002

Integrated Clinical Studies 6

Staff Contact: Prof J. Dwyer

Objectives: To build on the student's experiences in the 4th and 5th Years of the course. To ensure that during clinical attachments in Year 6 students are capable of accepting additional responsibility within clinical teams. To ensure a smooth transition from medical student to Intern. To integrate knowledge and skills gained in the previous three years, so that student's assessment, documentation and management of clinical problems is sufficiently mature and rounded to warrant graduation and provisional registration. To have students leave medical school committed to the importance of continued medical education.

Year 6 of the new Curriculum is fully integrated with the fourth year of the programme. The year is organised as follows.

At the completion of fifth year, students may commence an elective term. Time for this programme is provided through the first weeks of Year 6. Students must report to the University on the second Monday in March to commence the formal work associated with the Clinical Studies programme for Year 6.

The first week of the year will involve a campus programme similar to those presented in Year 4. Following that week, two further campus weeks will be supplied during the year. The lecture, tutorial and correlation programmes build on knowledge of the disease processes gained in Year 4 and a special emphasis is placed on management, therapeutics and practical information needed for students who will soon commence work as Interns.

Individual principal hospitals may strengthen the structured learning experience by providing additional lectures, however the time available for such additional programmes will be strictly limited so that students are not diverted from their principal work on the wards.

Five 6-week attachments fill out the year. For one of the six week terms, students will be attached to an emergency

room and an intensive care unit at a principal teaching hospital, or a selected peripheral hospital, where appropriate arrangements have been made for supervision. The remaining terms assigned to students will complement terms completed in Year 4. One medicine and one surgical attachment will be provided at the students principal hospital and a further term will be provided at a peripheral hospital.

Students may request a specific programme during the flexible fifth term of sixth year, providing their progress has been satisfactory.

As in fourth year, clinical attachments provide an opportunity for learning on the job and the steady increase in the responsibility for patient management will be given to students as experience and their proven performance suggests that this is appropriate. On the wards, a significant emphasis will be placed on mastering procedural skills, therapeutics and such practical matters as interaction with ancillary medical staff and discharge planning.

Assessment: For a student to be eligible to sit the final examinations they must have performed satisfactorily in each of the Year 6 clinical attachments, developing satisfactory procedural and clinical skills. At the end of Year 6, students will be assessed by means of a directed short case examination with emphasis on management and therapeutics, a free ranging viva voce examination and a Multiple Choice Examination involving questions related to medicine, surgery, community health and pharmacology, based on the material presented during the campus week lectures in Year 6. All parts of this examination must be passed for graduation.

MFAC6001

Final Year Elective Term

Staff Contact: Faculty Office

Objectives: These include one or more of the following: to further develop 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.

The elective term may include work in one of the following areas: 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 are encouraged to consider commencing their elective term early by extending it over the period from the end of Year 5 to the end of the first week in March of the subsequent year.

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 term.

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 Clinical Associate Dean.

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 last day of the elective 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.

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. Students should also be aware that the University does not insure them against personal injury or illness. There is a limited cover provided by an insurance policy taken out by the Student Union. Enquiries about this policy should be made directly to the Student Union.

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 course of study approved by the Chairman of the Faculty's BScMBBS Committee leading to the award of the degree of BSc, and on completion, enter Year 3 of the normal Medicine Course. 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. 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, 24 units are required, together with 56 hours of Category A and 56 hours of Category B General Education electives. Students usually take 8 units in Year 1, 8 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. In addition, students may take an elective unit in Session 2. Some Year 3 programs require students to take a specified unit in place of the optional elective. One unit of human behaviour must be taken in either second or third year.

Year 3

Students must take a minimum of 4 level III units in the subject of their major, which must be anatomy, biochemistry or physiology. The program must include at least two Level II Anatomy units and BIOC3261 Human Biochemistry. Under some circumstances one of the Anatomy or Biochemistry units may be taken in Year 2. The possible combinations are indicated in the following table. One unit of human behaviour must be taken in either

second or third year. Students are not permitted to enrol in either PHPH3152 Pharmacology or PATH3201 Basic and Applied Pathology. Pharmacology and Pathology are subjects studied by all students in Year 3 of the Medicine course. Students who complete PHPH3114 Physiology 2 MAY be given an exemption from the Year 3 Medicine subject PHPH3014 Medical Physiology 2.

Subjects

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

ANAT	Anatomy
BIOC	Biochemistry
BIOS	Biological Sciences
CHEM	Chemistry
MATH	Mathematics
PHPH	Physiology and Pharmacology
PHYS	Physics

Elective units may be chosen from subjects listed in the Undergraduate Study Subject Descriptions of the Science Handbook.

Year 1

BIOS1011, BIOS1021
CHEM1002
PHYS1002 or PHYS1022
MATH1032 or MATH1042 or both MATH1011 and MATH1021
General Education Category A. One 56 hour or 2 x 28 hour elective/s.

Year 2

ANAT2111, ANAT2211,
BIOC2312,
PHPH2121
Elective units*
PSCY2201**
General Education Category B. One 56 hour or 2 x 28 hour elective/s.

* In choosing Year 2 elective subjects, students should take into consideration prerequisites for their major. Students not majoring in Anatomy should take either ANAT3121 Visceral Anatomy or ANAT3311 Mammalian Embryology in Year 2. Students majoring in Biochemistry must take either CHEM2021 Organic Chemistry or CHEM2041 Chemical and Spectroscopic Analysis or obtain exemption from level II Chemistry pre-requisites from the Head of School of Biochemistry and Molecular Genetics. Students completing an Anatomy double major or an Anatomy and Physiology double major may be permitted to take BIOC3261 Human Biochemistry in Session 2 of Year 2, subject to satisfactory results in the Session 1 examination in BIOC2312 as determined by the Head of School of Biochemistry and Molecular Genetics.

** PSCY2201 Human Behaviour may be taken in Year 2 or 3.

Year 3

Anatomy Major
4 Level III Anatomy units
BIOC3261 Human Biochemistry
PSCY2201*
3 Elective units

Anatomy Double Major

7 Level III Anatomy units
BIOC3261 Human Biochemistry**
PSCY2201*

Anatomy and Biochemistry Double Major

PSCY2201*
4 Level III Anatomy units
BIOC3261 Human Biochemistry
2 additional level III Biochemistry units
1 elective unit

Anatomy and Physiology Double Major

4 Level III Anatomy units
BIOC3261 Human Biochemistry**
PHPH3114
PSCY2201*

Biochemistry Major

2 Level III Anatomy units
BIOC3261 Human Biochemistry
3 additional level III Biochemistry units
PSCY2201*
2 elective units

Biochemistry Double Major - Not available

Biochemistry and Physiology Double Major

1 Level III Anatomy unit
BIOC3261 Human Biochemistry
2 additional level III Biochemistry units
PHPH3114
PSCY2201*

Physiology Major

2 Level III Anatomy units
BIOC3261 Human Biochemistry
PHPH3114
PSCY2201*
1 Elective unit

Physiology Double Major - Not available

* PSCY2201 Human Behaviour may be taken in Year 2 or 3.

** BIOC3261 Human Biochemistry must be taken in Year 3 if not taken 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 Science Handbook. 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 3801, together with an aggregate mark based on the Science component of the course.

Combined Arts and Medicine Course

(BA BSc(Med) MB BS)

The Arts/Medicine course is an alternative course of study, whereby, over a seven-year program a student may complete the degree of Bachelor of Arts, with the degrees Bachelor of Science(Medicine), Bachelor of Medicine and Bachelor of Surgery. The Arts/Medicine course is intended for those students who wish to continue their interest and studies in the Arts during their medical studies.

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 Arts/Medicine course is made approximately two weeks before commencement of Session 1.

Over a period of seven years, students will be required to fulfil the requirements of the BSc(Med) MB BS degree course (with the exception of Category A and B general education subjects in Year 1) as well as a minimum of 48 credit points in subjects offered by the Schools/Departments/Programs within the Faculty of Arts (including an approved major sequence).

In Year 1, students will complete the Year 1 Medicine program plus the level 1 subject(s) of their Arts major sequence. In Years 2 and 3 they will complete the program for the Year 2 of the Medicine course and the remaining subjects for their Arts component, before progressing to Year 3 of the Medicine program in their fourth year of enrolment.

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

Course Details

Students are required to undertake all BSc(Med) MB BS subjects (with the exception of category A and B general education) plus a minimum of 48 credit points in Arts (including a major sequence) during Years 1 to 3. A major sequence = 36 credit points (usually 12 at level 1 and 24 at Upper Level). Details of all arts subjects are given in the Arts Handbook.

Year 1

Students are required to complete all Medicine (course 3801) Year 1 subjects plus all level 1 subjects of their Arts major sequence (with the exception of Category A and B General Education).

ANAT1006 Anatomy 1
 BIOC1319 Biochemistry for Medical Students
 MFAC1001 Introductory Clinical & Behavioural Studies
 PHPH1004 Biology for Medical Students
 Level 1 Arts Major Sequence

Year 2

Medicine Year 2 subjects are to be spread over years 2 and 3 to allow for the completion of upper level subjects of their Arts major sequence, plus additional subjects to complete the BA component. The Medicine subjects BIOC2329 Medical Biochemistry and Genetics and ANAT2007 Anatomy 2 must be taken in year 2 of the BA BSc(Med) MB

BS course. The subject PSCY2101 Human Behaviour may be taken in either Year 2 or Year 3 of the program.

ANAT2007 Anatomy 2

BIOC2329 Medical Biochemistry and Genetics

PSCY2101 Human Behaviour**

Upper Level Arts Major Sequence plus additional Arts subjects

Year 3

The Medicine subjects PHPH2018 Medical Physiology 1 and MDSG2001 Clinical Studies 2 must be taken in Year 3 plus upper level arts subjects to complete the Arts major sequence and any other arts subjects to complete the required number of credit points (ie. 48).

MDSG2001 Clinical Studies 2

PHPH2018 Medical Physiology 1

PSCY2101 Human Behaviour*

Upper Level Arts Major Sequence plus additional Arts subjects

**PSCY2101 Human Behaviour may be taken in Year 2 or Year 3.*

Year 4

Students join Year 3 of the Medicine Course.

Honours may be awarded at the time of graduation with the degrees of BSc(Med) MB BS, on the basis of a student's performance throughout the combined course. 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 3801.

Intern Placement and Ranking of Students

Intern Placement and Registration

Each medical graduate seeking registration as a medical practitioner in New South Wales must complete a period as an intern 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:

Internship: The Postgraduate Medical Council, Macquarie Hospital Campus, Cox's Road, North Ryde, 2113, Telephone: 888 3122.

Registration: The Registrar, Medical Board of New South Wales, Gladesville Hospital Grounds, off Putt Road, Gladesville, Telephone 879 6799.

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.

If 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.

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.).

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 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 IV/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 6 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. Honours calculation for students undertaking the BA BSc(Med) MBBS course is the same as for the BSc(Med) MBBS course, ie. the subjects in the BA component are not counted.

7. 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 1991 was:

Class I Honours

Course Mark: 69.5%

Number of Awards: 21

% of graduands: 10.9

Class II Div. I

Course Mark: 66.6-69.4%

Number of Awards: 23

% of graduands: 12.0

Class II Div. II

Course Mark: 64.5-66.5%

Number of Awards: 31

% of graduands: 16.1

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 Weights Within Years (6 Year Course)

Year 1	
Anatomy	3
Introductory Clinical and Behavioural Studies	2
Biology for Medical Students	1
Biochemistry for Medical Students	3
Year 2	
Medical Biochemistry and Genetics	2
Anatomy 2	3
Medical Physiology 1	3
Human Behaviour	1
Year 3	
Microbiology for Medical Students	1
Pathology	1
Medical Physiology 2	1
Medical Pharmacology	1
Clinical Studies 3	1
Medical Ethics and Health Law	0.5
Year 4	
Integrated Clinical and Community Studies	1
Year 5	
Obstetrics & Gynaecology	1
Paediatrics	1
Psychiatry	1
Geriatrics/General Practice/Subspecialty	1
Year 6	
Integrated Clinical Studies 6	1

Table 2. Year Weights

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

Bachelor of Science (Medicine) Honours

(BSc (Med) Hons)

This is a one year research program offered to students in the 6 year Medicine Course who have achieved a high standard in their studies. 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 Science (Medicine) Degree with Honours (BSc(Med)Hons)

(For candidates in the Courses 3801 and 3840)

1.(a) Undergraduates who have successfully completed the first three years of the six year Medicine Course 3801 or the first four years of the seven year Arts/Medicine Course 3840 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)Hons 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)Hons Committee.

2.(a) Medical graduates may enrol for the degree of BSc(Med)Hons in any subject approved by the BSc(Med)Hons 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)Hons 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)Hons Committee.

Assessment Guidelines

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. Students are also required to participate in a General Education (Category C) program. This requirement is met by subject CMED3001 Medical Ethics and Health Law in Year 4 of the course, and teaching in ethics in Years 5, 6, and 7 of the course.
6. The degree of BSc(Med)Hons may be awarded in the following grades: Honours Class I; Honours Class II, Division I; Honours Class II, Division II or no award made.

Subject Descriptions

Summary of Compulsory Undergraduate Subjects

The following Subject Descriptions appear earlier in this handbook under **Course Details**, and are presented by subject number and title, together with the year in which each subject is to be taken in the Medicine Course.

ANAT1007 Anatomy 1	Year 1
ANAT2007 Anatomy 2	Year 2
BIOC1319 Biochemistry for Medical Students	Year 1
BIOC2329 Medical Biochemistry and Genetics	Year 2
CMED3001 Medical Ethics and Health Law	Year 3
MDSG2001 Clinical Studies 2	Year 2
MDSG3001 Clinical Studies 3	Year 3
MDSG4001 Integrated Clinical and Community Studies	Year 4
MDSG6002 Integrated Clinical Studies 6	Year 6
MFAC1001 Introductory Clinical & Behavioural Studies	Year 1
MFAC5001 Geriatrics/General Practice/Subspecialties	Year 5
MFAC6001 Elective	Year 6
OBST5001 Obstetrics and Gynaecology	Year 5
PAED5101 Paediatrics	Year 5
PATH3101 Pathology	Year 3
PHPH1004 Biology for Medical Students	Year 1
PHPH2018 Medical Physiology 1	Year 2
PHPH3014 Medical Physiology 2	Year 3

PHPH3055 Medical Pharmacology	Year 3
PSCY2101 Human Behaviour	Year 2
PSCY5001 Psychiatry	Year 5

Anatomy

Servicing Subjects only: taught within courses offered by other faculties.

ANAT2111
Introductory Anatomy
Staff Contact: Dr P. Pandey
F HPW6
Prerequisites: BIOS1011, BIOS1021

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

ANAT2211
Histology 1
Staff Contact: Dr P. Waite
F HPW3
Prerequisites: BIOS1011, BIOS1021
Corequisite: ANAT2111

Elementary theory of light and electron microscopy. General cell morphology and ultrastructure. Introduction to simple histological techniques and artefacts. 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.

ANAT3121
Visceral Anatomy
Staff Contact: Dr K. Ashwell
S2 HPW6
Prerequisite: ANT2111

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.

ANAT3131**Functional Anatomy 1***Staff Contact: A/Prof D. Tracey*

S1 HPW6

Prerequisite: ANAT2111

Functional anatomy of the musculoskeletal system in the head, neck and upper limb, includes biomechanics of connective tissue; in particular bone, cartilage and tendon. Tutorials involve study of prosected specimens, X-rays and surface anatomy; students will also carry out their own dissections of the upper limb.

ANAT3141**Functional Anatomy 2***Staff Contact: A/Prof D. Tracey*

S2 HPW6

Prerequisite: ANAT3131

Functional anatomy of the musculoskeletal system in the trunk and lower limb. Includes functional aspects of muscle and a discussion of the mechanics and energetics of walking and running. Tutorials involve study of prosected specimens, X-rays and surface anatomy; students will also carry out their own dissections of the lower limb.

ANAT3211**Histology 2***Staff Contact: Dr B. Freeman*

F

Prerequisite: ANAT2211

Notes: Excluded: ANAT3220 (If ANAT3211 is taken after ANAT3220 total counts only 1 unit.)

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

ANAT3220**Histological and Histochemical Techniques***Staff Contact: Dr B. Freeman*

S2 HPW3

Prerequisites: BIOS1011, BIOS1021 and either BIOC2312 or BIOS2061 or ANAT2211

Notes: Excluded: ANAT3211.

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

ANAT3311**Mammalian Embryology***Staff Contact: Dr M. Smith*

F HPW3

Corequisites: ANAT2211, ANAT2111

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.

ANAT3411**Neuroanatomy 1***Staff Contact: Dr E. Tancred*

S1 HPW6

Prerequisites: ANAT2211, ANAT2111

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.

ANAT3421**Neuroanatomy 2***Staff Contact: Dr P. Waite*

S2 HPW3

Prerequisite: ANAT3411

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.

ANAT4000**Anatomy 4***Staff Contact: Dr K. Ashwell*

F

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

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

Biochemistry**BIOC2312****Principles of Biochemistry and Molecular Biology***Staff Contact: Dr A. Bagnara*

U2 F HPW6

Prerequisites: BIOS1011 and BIOS1021, CHEM1101 and CHEM1201 or CHEM1002

Notes: Excluded CHEM2929.

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. Regulation of gene expression. Recombinant DNA technology and protein engineering. Introduction to biotechnology. Photosynthesis. Practical work to complement the lectures.

Assessment: Examinations are held at mid year and the end of the year and there is continuous assessment throughout the year.

BIOC3111

Molecular Biology of Proteins

Staff Contact: Dr G. Zalitis

U1 S1 HPW6

Prerequisites: BIOC2312, CHEM2021 or CHEM2041

Notes: Excluded 41.102, 41.102A.

Modern aspects of the structure-function relationships of proteins including discussion of the latest techniques of protein characterization. Topics include: separation and analytical procedures; determination of amino acid sequence data; the nature of protein-protein and protein-ligand interactions including aspects of substrate binding, enzyme kinetics and enzyme mechanisms; the molecular architecture of proteins from the standpoint of the relationships among primary, secondary, tertiary and quaternary structures; aspects of protein engineering. Practical work illustrates and complements the lectures and provides experience with modern techniques of protein molecular biology.

Assessment: Assessment is based on an examination at mid year and continuous assessment of practical work.

BIOC3121

Molecular Biology of Nucleic Acids

Staff Contact: A/Prof A. Mackinlay

U1 S1 HPW6

Prerequisites: BIOC2312, CHEM2021 or CHEM2041

Notes: Excluded 41.102, 41.102A.

Detailed analysis of gene structure and function including: structure and properties of polynucleotides such as DNA and RNA; structure of chromatin; mechanisms and regulation of gene replication, transcription and translation; recombinant DNA technology, nucleic acid sequencing, DNA-DNA and DNA-RNA hybridization as important tools of modern molecular biology; protein production using recombinant DNA systems. Practical work illustrates and complements the lectures and provides experience with contemporary biochemical techniques.

Assessment: Assessment is based on an examination at mid year and continuous assessment of practical work.

BIOC3261

Human Biochemistry

Staff Contact: A/Prof P. Schofield

U1 S2 HPW6

Prerequisite: BIOC2312

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 amplifies the lectures.

Assessment: Assessment is based on an examination at mid year and continuous assessment of practical work.

BIOC3271

Cellular Biochemistry and Control

Staff Contact: Prof. B. V. Milborrow

U1 S2 HPW6

Prerequisite: BIOC2312

Cell biology from a molecular 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 and the 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. Complementary to BIOS3141 Ultrastructure and Function of Cells and students with a special interest in cell biology are encouraged to take both subjects. Practical work amplifies the lectures.

Assessment: Assessment is based on an examination at mid year and continuous assessment of practical work.

BIOC3281

Recombinant DNA Techniques and Eukaryotic Molecular Biology

Staff Contact: Dr T. Stewart

U1 S2 HPW6

Prerequisite: BIOC3121

Notes: Excluded 41.132, 41.102E. The practical component requires attendance throughout the mid session break.

The organization of the genomes of higher organisms derived mainly from the application of recombinant DNA technology and related techniques. Methods used for the isolation, identification and characterization of eukaryotic genomes in terms of the organization of single-copy and repeated sequences and of coding and non-coding sequences and of several gene clusters, eg the alpha and beta globin gene cluster. Mechanisms known to operate in the control of eukaryotic gene expression, both at the DNA level and at the level of RNA processing. Review of several specialized genetic systems in plants and animals such as mitochondria, chloroplasts and RNA and DNA tumour viruses. Practical work provides training in the use of sterile techniques and in working with polynucleotides under nuclease-free conditions, using basic techniques such as hybridization and DNA sequencing.

Assessment: Assessment is based on an examination at mid year and continuous assessment of practical work.

Biological Science

BIOS1011

Biology A

Staff Contact: Dr R. Vickery

U1 S1 HPW6

Prerequisites: HSC Exam Score Required: 2 unit Science (Physics) 53-100, or 2 unit Science (Chemistry) 53-100, or 2 unit Science (Geology) 53-100, or 2 unit Science (Biology) 53-100, or 3 unit Science 90-150, or 4 unit Science 1-50

Notes: The course guide is available for purchase during enrolment week. Equipment required for practical classes is listed in the Course Guide and must be purchased before session starts. Students must consult it for details of the course and assessments.

The biology of cells; their structure as seen with light and electron microscopes; how they move, take in and excrete substances; their chemistry and use of energy. Inheritance and mutations; genes and how they work. The theory covered in the lectures and tutorials is illustrated by observation and experiment in laboratory classes.

BIOS1021

Biology B

Staff Contact: Dr R. Vickery

U1 S2 HPW6

Prerequisites: BIOS1011

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, which include dissection of a toad and a rat.

BIOS2031

Biology of Invertebrates

Staff Contact: A/Prof P. Greenaway

U1 S2 HPW6

Prerequisites: BIOS1011 and BIOS1021

A comparative study of morphology, taxonomy, functional biology and evolutionary relationships of invertebrates. Emphasis on major phyla and marine forms. Practical work includes anatomy of living and preserved specimens (including dissections) and a compulsory fieldcamp.

BIOS2061

Vertebrate Zoology

Staff Contact: Dr M. Augée

U1 S1 HPW6

Prerequisites: BIOS1011 and BIOS1021

Notes: Excluded 45.301, 17.732. a compulsory 3-day field trip will be held during the week before the start of session 1. Field trip and practical class allocations must be obtained during re-enrolment week from room 501E, Biological Science Building.

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 lectures. Participations in field excursions is compulsory.

Chemistry

CHEM1101

Chemistry 1A

Staff Contact Dr P. Chia

U1 S1 HPW6

Prerequisites: HSC Exam Score Range Required: 2 unit Mathematics 55-100, or 3 unit Mathematics 1-50, or 4 unit Mathematics 1-100 and 2 unit Chemistry 53-100, or 3 unit Science 90-150, or 4 unit Science 1-50, or 2 unit Physics 53-100

Stoichiometry and solution stoichiometry. Atomic and molecular structure. Changes of state, phase diagrams, gases, liquids, solids, solutions. Thermodynamics. Equilibrium constants, acid-base and solubility. Oxidation and reduction. Kinetics.

CHEM1201

Chemistry 1B

Staff Contact: Dr P. Chia

U1 S2 HPW6

Prerequisite: CHEM1101

Notes: The two subjects CHEM1101 and CHEM1201, taken sequentially, are equivalent to CHEM1002.

Molecular geometry, hybridization of orbitals. Periodicity of physical and chemical properties of elements and compounds. Organic chemistry, including stereoisomerism.

Community Medicine

Servicing Subjects only: taught within courses offered by other faculties.

CMED8201

Population Genetics

Staff Contact: Dr A. Stark

S1 HPW5

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

The genetic structure of populations: 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; computer methods.

CMED8202

Human Genetic Analysis

Staff Contact: Dr A. Stark

S2 HPW5

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; estimation and applications of genic and genotypic frequencies, selective values, mutation and migration rates, coefficients of kinship, inbreeding and assortative mating, recombination fractions and heritabilities; segregation analysis; risks of recurrence of disease; consequences of human intervention; computer methods.

CMED8302 Biochemical Genetics of Man

Staff Contact: Dr L.Y.C. Lai
S2 HPW6

Prerequisite: BIOC2312 and BIOS2021 or CMED8303

Inherited variation of blood group proteins, their possible selective roles, and their application to the study of the biological relationship between populations and recent advances in their gene characterization. Inherited DNA variation or restriction fragment length polymorphism and variable number of tandem repeats, their application to studies of genetic diseases and of human populations. General approach from two loci per chromosome. Application of statistical techniques to analyzing population data.

CMED8303 Human Genetics

Staff Contact: Dr L.Y.C. Lai
S1 HPW6

Prerequisite: BIOS2021

The principles and concepts of human genetics and methods used to study the nature and extent of genetic differences; mechanisms of inheritance and gene expression, gene linkage and patterns of inheritance; principles and applications of population genetics and cytogenetics; modern molecular techniques for human gene mapping, gene localization, disease and the prospects of gene therapy; genetic fingerprinting and current ethical issues in human genetics.

Mathematics

MATH1011 General Mathematics 1B

Staff Contact: School of Mathematics First Year Office..
U1 S1 HPW6

Prerequisites: HSC exam score range required: 2 unit Mathematics (60-100) or 2 and 3 unit Mathematics (1-150) or 3 and 4 unit Mathematics (1-200). (2 unit Mathematics in this instance refers to the 2 unit Mathematics subject which is related to the 3 unit Mathematics subject. It does not refer to the subjects Mathematics in Society or Mathematics in Practice. These numbers may vary from year to year.)

Notes: Excluded MATH1032, MATH1042, ECON2200, ECON2201, ECON2202.

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.

MATH1021 General Mathematics 1C

Staff Contact: School of Mathematics First Year Office
U1 S2 HPW6
Prerequisite: MATH1011

Notes: Excluded MATH1032, MATH1042, ECON2200, ECON2201, ECON2202.

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.

MATH1032 Mathematics 1

Staff Contact: School of Mathematics First Year Office
U2 F HPW6

Prerequisites: HSC exam score range required: 2 unit Mathematics (67-100)(from 1994 this will be 90-100) or 2 and 3 unit Mathematics (100-150) or 3 and 4 unit Mathematics (100-200) or MATH1011 (2 unit Mathematics in this instance refers to the 2 unit Mathematics subject which is related to the 3 unit Mathematics subject. It does not refer to the subjects Mathematics in Society or Mathematics in Practice. These numbers may vary from year to year.)

Notes: Excluded MATH1011, MATH1021, MATH1042, ECON2200, ECON2201, ECON2202.

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

Medicine

Servicing Subjects only: taught within a course offered by another faculty.

MDCN8001 Principles of Medicine for Optometry Students

Staff Contact: A/Prof L. Simons (St Vincent's Hospital)
F HPW1

Notes: Students normally take the subject in Year 4 of course 3950.

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

Pathology

Servicing Subjects only: taught within a course offered by another faculty.

PATH3201 Basic and Applied Pathology

Staff Contact: A/Prof C. Howlett
F HPW3

Prerequisites: ANAT2211, ANAT2111, PHPH2112 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 only: taught within courses offered by other faculties.

PHPH2112 Physiology 1

Staff Contact: Dr J. Morley
F HPW6

Prerequisites: BIOS1021; CHEM1002 or CHEM1011 and CHEM1201 or a credit level pass in CHEM1302 or CHEM1401 and CHEM1501; MATH1032 or MATH1042 or MATH1011 and MATH1021

Corequisite: BIOC2312

Notes: From 1994, student numbers in Physiology 1 will be limited, and entry to the subject will be allocated on academic merit.

Introduces fundamental physiological principles, dealing first with basic cellular function in terms of chemical and physical principles, and, with the operation of the various specialized systems in the body, for example, the cardiovascular system; the respiratory system; the gastrointestinal system; the endocrine system; the nervous system. Includes a substantial series of practical class experiments on these different areas of physiology. This subject is taken by students enrolled in any of the Physiology program.

PHPH2122 Principles of Physiology (Optometry)

Staff Contact: Dr J. Morley
F HPW6

Notes: Restricted to course 3950.

Covers the same general areas of physiology as Physiology 1. Principles of Physiology is taken only by students in the BOptom degree course.

PHPH3114 Physiology 2

Staff Contact: Prof M. Rowe
F HPW12

Prerequisites: PHPH2112, BIOC2312

Notes: From 1995, student numbers in Physiology 2 will be limited and entry to the course will be allocated on academic merit.

A major subject offered in Year 3, providing a more advanced course of study in Physiology. Laboratory experiments which illustrate various physiological principles and introduce research techniques. Orientated towards the major research interests of the School, the subject is divided into several sections which may be

available in special circumstances as separate 1 and 2 unit Level III subjects, including Membrane Biology, Neurophysiology and Organ Physiology, details of which are given below.

PHPH3121 Membrane Biology

Staff Contact: A/Prof P. Barry
S1 HPW6

Prerequisites: Normally as for PHPH3114 but may be studied only with permission of the Head of School

Notes: From 1995, student numbers in this subject will be limited, and entry to the course will be allocated on academic merit.

The properties of cell membranes, generation of potentials, permeation of ions, solutes and water across membranes, single channel measurements, unstirred layer effects, generation of electrical signals in nerve and muscle cells produced by ion movements, and transmission of information between cells and mechanisms in renal physiology. Stress on modern research techniques and on a critical examination of appropriate classical papers.

PHPH3131 Neurophysiology

Staff Contact: Prof M. Rowe
S1 HPW6

Prerequisites: Normally as for PHPH3114 but may be studied only with permission of the Head of School

Notes: From 1995, student numbers in this subject will be limited, and entry to the course will be allocated on academic merit.

The neural mechanisms in sensation and the control of posture and movement. Includes segments on neural control of cardiorespiratory function; transmitters and neuromodulators; neural mechanisms in certain higher functions, eg language and memory; nervous system plasticity; computer applications in neuroscience. Experimental work introduces the student to electrophysiological and other neuroscience research techniques.

PHPH3142 Organ Physiology

Staff Contact: A/Prof M. Perry
S2 HPW12

Prerequisites: for PHPH3121, PHPH3131, PHPH3142 normally as for PHPH3114, but may be studied only with permission of the Head of School

Notes: From 1995, student numbers in this subject will be limited, and entry to the course will be allocated on academic merit.

An advanced coverage of aspects of cardiovascular, respiratory, renal, fetal exercise and gastrointestinal physiology. Emphasis on the function and control of each organ and system. Extensive practical component involving mammalian (including human) preparations.

PHPH3152 Pharmacology

Staff Contact: A/Prof G. Graham
F HPW6

Prerequisite: PHPH2112, BIOC2312

Notes: From 1995, student numbers in this subject will be

limited, and entry to the course will be allocated on academic merit.

Includes a study of the absorption, distribution and metabolism of drugs, plus 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. Practical complementing of the lecture program by demonstrating a variety of basic pharmacological techniques.

PHPH4218/PHPH4224

Physiology Honours

Staff Contact: Dr D. Garlick

F HPW10

Notes: Completion of program 7300 including 7 level III units, 4 of which must be physiology

The Honours Year provides an introduction to research. Students undertake a research project with supervision which is written up as a thesis and presented as a seminar. Students are also required to participate in a General Education program which consists of a core program of seminars, an essay and participation in discussion groups.

PHPH4258/PHPH4264

Pharmacology Honours

Staff Contact: Dr D. Garlick

F HPW 10

Notes: Completion of program 7301 including 7 level II units.

The Honours Year provides an introduction to research. Students undertake a research project with supervision which is written up as a thesis and presented as a seminar. Students are also required to participate in a General Education program which consists of a core program of seminars, an essay and participation in discussion groups.

Physics

PHYS1002

Physics 1

Staff Contact: First Year Director

U2 F HPW6

Prerequisites: HSC Exam Score Range Required: 2 unit Mathematics 67-100, or 3 unit Mathematics 1-50, or 4 unit Mathematics 1-100 or (for PHYS1002 only) MATH1011, and 2 unit Science (Physics) 57-100, or 2 unit Science (Chemistry)

60-100, or 3 unit Science 90-150, or 4 unit Science 1-50 or PHYS1022 (2 unit Mathematics in this instance refers to the 2 unit Mathematics subject which is related to the 3 unit Mathematics subject, and does not refer to the subjects Mathematics in Society or Mathematics in Practice).

Co-requisite: MATH1021 or MATH1032.

Motion of particles under the influence of mechanical, electrical, magnetic and gravitational forces. Force, inertial mass, energy, momentum, charge, potential, fields. Conservation principles applied to problems involving charge, energy and momentum. Application of Kirchhoff's laws to AC and DC circuits. Uniform circular motion, Kepler's laws and rotational mechanics. Properties of matter: solids, liquids, gases. Application of wave theories to optical and acoustical phenomena such as interference, diffraction and polarization.

PHYS1022

Introductory Physics 1 (For Health and Life Scientists)

Staff Contact: First Year Director

U2 F HPW6

Corequisites: MATH1011 and MATH1021 or MATH1032.

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.

Psychiatry

Servicing Subject only: taught within courses offered by other faculties.

PSCY2201

Human Behaviour

Staff Contact: Dr C. Mason

F HPW3

Prerequisites: No formal prerequisites.

As for PSCY2101. See Undergraduate Study: 3801 Medicine Course, earlier in this handbook.

Faculty of Medicine Graduate Enrolment Procedures

All students enrolling in graduate courses should obtain a copy of the free booklet *Re-Enrolling 1993* 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 appropriate Head of School or the Postgraduate Section (through the Admissions Office in the Chancellery).

Graduate Courses

At the graduate level, study for the award of the degrees of Doctor of Medicine (MD), Doctor of Philosophy (PhD), Master of Science (MSc), Master of Community Health (MCH), Master of Health Personnel Education (MHPEd), Graduate Diploma in Health Personnel Education (GradDipHPed), Master of Clinical Education (MClinEd), Graduate Diploma in Clinical Education (DipClinEd), Master of Paediatrics (MPaed), Diploma of Paediatrics (DipPaed), Master of Psychotherapy (MPsychotherapy), Master of Psychological Medicine (MPM), Master of Public Health (MPH) and Master of Surgery (MS) may be undertaken. Full details of the conditions of the award of these degrees are shown in this handbook under **Conditions for the Award of Higher Degrees**.

Course Outlines

School of Community Medicine

The School offers programs of study leading to the award 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 course requires either one year of full-time course work plus a six-month research project or two years of part-time course work plus a six-month major project. Students are required to undertake a total of 12 two credit point subjects, which consist of all three compulsory nominated subjects listed in Group A and at least two of the nominated subjects in Group B, plus additional academic electives and/or independent studies to give a total of 24 credit points; the major project is equivalent to 12 credit points. (Each credit point is equivalent to one class contact hour per week.)

Group A: Compulsory Nominated Subjects

CMED9500 Epidemiology: Principles and Research Designs

CMED9513 Research Planning

CMED9514 Biostatistics 1

Group B: Nominated Subjects

CMED9517 Biostatistics 2

CMED9518 Epidemiology, Health and Society

CMED9519 Demography

CMED9520 Planning and Techniques 1

CMED9521 Planning and Techniques 2

Group C: Academic Electives

CMED9504 Major Project

CMED9100 Independent Studies

CMED9600 Disability

CMED9602 Health and Illness Behaviour

CMED9603 Communication and Writing in Health

CMED9604 Alcohol and Drug Related Problems

CMED9605 Health in Developing Countries

CMED9606 Women and Health

CMED9607 Researching Women's Health

CMED9608 Rural Health Studies 1

CMED9609 Community Genetics

CMED9610 Community Nutrition

CMED9611 Health of the Elderly

CMED9612 Environmental Health

CMED9613 Health and Public Policy

CMED9614 Genetic Epidemiology

CMED9615 Primary Health Care

CMED9618 Ethics in Medicine and Community Health

CMED9619 Community Paediatrics

CMED9620 Health Population in Rural Areas

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

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 Services Management 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 Co-ordinator.

9045

Master of Public Health By Formal Course Work

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 Services Management 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 5 academic 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 Services Management. Two of the six subjects may be Independent Studies in any of the three Schools (CMED9100, MEED9001, HEAL9921).

(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 (CMED), School of Medical Education (MEED) and School of Health Services Management (HEAL). All subjects are assumed to be of equal credit value that is, two credit points.

Population and Methodological Studies

CMED9500 Epidemiology: Principles and Research Designs

CMED9518 Epidemiology, Health and Society

CMED9513 Research Planning

CMED9514 Biostatistics I

CMED9516 Research Designs

CMED9517 Biostatistics II

CMED9614 Genetic Epidemiology

HEAL9011 Quantitative Methods and Statistics 1

HEAL9021 Quantitative Methods and Statistics 2

HEAL9371 Research and Evaluation Methods

HEAL9411 Epidemiology

HEAL9421 Public Health

HEAL9461 Management Information Systems

HEAL9501 Computing Techniques for Health Services Research

MEED9108 Program Evaluation and Planned Change

MEED9127 Research in Education for the Health Professions 1

MEED9128 Research in Education II

Health Issues Studies

CMED9100 Independent Studies

CMED9600 Disability

CMED9611 Health of the Elderly

CMED9602 Health and Illness Behaviour

CMED9604 Alcohol and Drug Related Problems

CMED9605 Health in Developing Countries

CMED9606 Women and Health

CMED9607 Researching Womens Health

CMED9608 Rural Health Studies 1

CMED9609 Community Genetics

CMED9610 Community Nutrition

CMED9612 Environmental Health

CMED9615 Primary Health Care (General Practice)

CMED9619 Community Paediatrics

CMED9620 Health Promotion in Rural Areas

HEAL9221 Project (equivalent to Independent Studies)

HEAL9421 Public Health

HEAL9921 Project (equivalent to Independent Study)

MEED9001 Independent Studies

MEED9012 Current Approaches to Health Promotion

MEED9013 Influencing Health Beliefs and Health Behaviour

MEED9122 Primary Health Care

Management Studies

HEAL9041 Health Care Systems

HEAL9071 Accounting and Financial Management

HEAL9301 Health Service Planning 1

HEAL9331 Health Services Law 1

HEAL9351 Health Economics 1

HEAL9701 Management A

HEAL9711 Management B

HEAL9741 Management of Health Services

MEED9104 Organization and Management for Health Personnel Education

MEED9111 Consultation Process

MEED9112 Management of Human Resources in Health

Educational, Social and Developmental Studies

CMED9603 Communications and Writing in Health

CMED9613 Health and Public Policy

CMED9618 Ethics in Medicine and Community Health

HEAL9811 Sociology, Ethics and Health

MEED9010 Understanding and Working in Communities

MEED9014 Communication & Educational Skills for Community Health Practitioners

MEED9102 Educational Process in Small Groups

MEED9108 Program Evaluation and Planned Change

MEED9113 Evaluation of Instructors

MEED9125 Planning, Conducting and Evaluating Educational Workshops

School of Medical Education

The School offers programs of study leading to the awards of the degrees of Master or Graduate Diploma of Health Personnel Education, Master or Graduate Diploma of Clinical 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 cultivate abilities required to plan, implement and evaluate programs in educational institutions, to undertake health workforce planning, and to lead community development and program management. 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

- MEED9101 Learning and Teaching
- MEED9102 Educational Process in Small Groups
- MEED9103 Instructional Design
- MEED9104 Organization and Management for Health Personnel Education

MEED9106 Teaching Skills

- MEED9012 Current Approaches to Health Promotion
- MEED9122 Primary Health Care
- MEED9125 Planning, Conducting and Evaluating Educational Workshops
- MEED9127 Research in Education for the Health Professions

Session 2

- MEED9105 Curriculum Planning
- MEED9107 Assessment of Students
- MEED9108 Program Evaluation and Planned Change
- MEED9013 Influencing Health Beliefs and Health Behaviour
- MEED9014 Communication & Educational Skills for Community Health Practitioners
- MEED9112 Managing Human Resources in Health

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

- MEED9010 Understanding and Working in Communities
- MEED9115 Educational Selection
- MEED9116 Trends in Health Sciences Curricula
- MEED9118 Clinical Problem-solving
- MEED9123 Production of Audio Visual Materials
- MEED9124 Clinical Teaching

Session 2

- MEED9002 Computers in Education
- MEED9011 Practicum in Developing Community Projects
- MEED9111 The Consultation Process
- MEED9113 Evaluation of Instructors
- MEED9117 Explorations in Personal Learning
- MEED9119 Clinical Decision-making
- MEED9121 Large Group Teaching
- MEED9126 Self-directed Learning and Self-instruction
- MEED9128 Research in Education for the Health Professions 2
- MEED9109 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.

5502

Graduate Diploma in Health Personnel Education**GradDipHPed**

Admission to the Graduate Diploma in Health Personnel Education requires a Bachelors degree of at least three years duration (or equivalent) and a minimum of two years experience in teaching and/or administration. It comprises the same subjects as the Master of Health Personnel Education program, with the exception of the major project.

9050

Master of Clinical Education By Distance Education**MClinEd**

5501

Graduate Diploma of Clinical Education By Distance Education**DipClinEd**

The course aims to provide a multidisciplinary program of study of clinical education for practising clinicians with teaching responsibilities. The course requires clinical educators to study the knowledge, reasoning, practical activities and skills within the environment of the ward and other clinical settings, to observe and document clinical teaching and learning, and to undertake action research in its improvement.

The course also aims to foster a rational and rigorous approach to understanding clinical reasoning and decision making, and to ensure its effective learning. Two levels of attainment are proposed to accommodate the differing needs among clinical teachers.

The degree of Master of Clinical Education will be awarded after satisfactory completion of a program of advanced study of 24 credit points and submission of a satisfactory Major Project report based on at least one semester of applied development or research in clinical education.

The Graduate Diploma in Clinical Education will be awarded after satisfactory completion of advanced study of 20 credit points together with 100 hours of clinical teaching practice.

Subjects to be offered within the distance education programs are:

- MEED9315 Clinical Teaching
- MEED9316 Learning Consulting Skill
- MEED9302 Learning in Small Groups
- MEED9303 Clinical Practice as a Discipline
- MEED9304 Learning Clinical Reasoning
- MEED9305 Learning from Experience
- MEED9306 Supervision, Mentoring and Feedback
- MEED9307 Exploring and Managing Ethical and Moral Dilemmas

- MEED9308 Learning Clinical Decision Making
- MEED9309 Assessment of Clinical Performance
- MEED9310 Evaluation of Clinical Teaching
- MEED9311 Patient and Family Education
- MEED9312 Research into Clinical Education
- MEED9313 Planning Educational Programs
- MEED9314 The Ward (or Office) as a Social and Learning Environment
- MEED9351 Independent Study
- MEED9352 Independent Study
- MEED9353 Independent Study
- MEED9354 Independent Study
- MEED9360 Major Project

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 54. 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 taken over 1 year on a part-time basis. Candidates are required to have an appointment in an approved children's hospital and should rotate through various paediatric specialities including neonatal paediatrics.

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 who have completed 12 months experience in clinical paediatrics under supervisors acceptable to the University may be exempted from the clinical experience.

- PAED9100 General Paediatrics and Child Health
- PAED9104 Clinical and Technical Skills
- PAED9105 Clinical Paediatric Experience 1

9010**Master of Paediatrics****MPaed**

This part-time 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 enrol for the course while undertaking other professional duties. A feature of the course is the wide range of activities and studies available in the second year permitting the development of a large number of special skills for future paediatric practice.

Year 1

- PAED9201 General Paediatrics 2
- PAED9202 Organization of Health Services 1
- PAED9203 Medical Statistics and Epidemiology
- PAED9204 Clinical Paediatric Experience 2

Year 2

- PAED9301 Community Pediatrics
- PAED9302 Clinical Paediatric Experience 3

School of Psychiatry

9030**Master of Psychotherapy****MPsychotherapy**

The course is designed to further the skills of practising mental health clinicians (psychiatrists, senior psychiatric trainees, clinical psychologists) in psychotherapy,

particularly cognitive behavioural psychotherapy. The masters degree program is a part-time course of two years. This course does not supplant the more comprehensive two year full time degree (MPsycholClin) offered by the School of Psychology. Candidates are required to complete the following program:

Nominated Subjects**Year 1**

- PSCY9103 Theoretical Basis of Therapy
- PSCY9104 Cognitive Behavioural Psychotherapy 1

Year 2

- PSCY9205 Cognitive Behavioural Psychotherapy 2
- PSCY9206 Project Report

9031**Master of Psychological Medicine****MPM**

The course is designed to increase the ability of experienced general practitioners to recognise mental disorders in their patients, to improve their ability to manage many such patients within their own practices, and to facilitate their ability to refer appropriately to psychiatrists or clinical psychologists for more specialised treatment. The masters degree program is a part time course over four sessions. Candidates are required to complete the following program.

Nominated Subjects**Year 1**

- Session 1*
- PSCY9106 Psychological Medicine 1

Session 2

- PSCY9107 Psychological Medicine 2

Year 2

- Session 1*
- PSCY9208 Psychological Medicine 3

Session 2

- PSCY9209 Psychological Medicine 4

Sessions 1 and 2

- PSCY9210 Project Report

Subject Descriptions

Anatomy

Servicing Subject only: taught within a course offered by another faculty.

ANAT5151

Introductory Functional Anatomy

Staff Contact: School Office

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

Community Medicine

Group A: Compulsory Nominated Subjects

CMED9513

Research Planning

Staff Contact: Dr L. Lai

C2

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.

CMED9514

Biostatistics 1

Staff Contact: Dr L. Lai

C2

Introduction to statistical methods; concepts and models of variation, sampling, probability, descriptive measures, graphical presentation, interpretation of data using tests and estimates, regression and correlation, analysis of variance, rates and proportions, contingency tables, robust statistics, computing procedures.

CMED9500

Epidemiology: Principles and Research Designs

Staff Contact: Dr L. Lai

C2

Defining epidemiology and related concepts in community health, identification of a "case", defining priorities, population at risk and taking samples, basic statistics, sources and collection of data, some important epidemiological variables and attributes; numbers and rates, prevalence and incidence, morbidity and mortality; measurement - repeatability and validity, observer variation and errors; interpretation of data, the role of significance tests, interaction of causes; introduction to the key components of a study; principles and methods of

descriptive, case-controlled longitudinal and intervention studies in community health; randomized controlled trials; assess the relevance of study type to a given research question, assess the extent of bias in measurement and confounding variables as they relate to study validity, and critically appraise published papers.

Group B: Nominated Subjects

CMED9517

Biostatistics 2.

Staff Contact: Dr L. Lai

C2

Statistical design, analysis and reporting; a selection of topics from clinical trials and other controlled studies, non-experimental studies, rates and proportions, multi-way tables, analysis of covariance and repeated measures, multiple regression and other multivariate analysis, life tables and survival analysis; use of statistical software.

CMED9518

Epidemiology, Health and Society

Staff Contact: Dr L. Lai

C2

The subject deals with epidemiological methods in community health and health screening; uses and limitations of epidemiology; epidemiology as a framework for research and evaluation, health policy development, surveillance systems for community based disease, field studies of physical, chemical and biological hazards, investigation of communicable disease outbreak, field research in the HIV epidemic, and for understanding the relationship between disease, impairment, disability and handicap; planning and organising a study.

CMED9519

Demography

Staff Contact: Dr L. Lai

C2

Introduction to demography; sources and processing of data, principles and applications. Life tables, mortality, marriage and divorce, natality, reproductiveity. Marital characteristics and family groups. Migration. Distribution by area, sex, age, race; educational and economic characteristics. Population estimates and projections. Computer techniques.

CMED9520

Planning and Techniques 1

Staff Contact: Dr L. Lai

C2

Hands-on experience in developing and carrying out a research project; critical appraisal of literature and research designs; students to identify a research topic area, then collect, code and analyse data using appropriate statistical techniques already acquired in this degree program; undertake analysis using the SPSSx package through the University's Vax computer.

CMED9521**Planning and Techniques 2***Staff Contact: Dr L. Lai*

C2

Continuation of Planning and Techniques 1; critical appraisal of statistical applications; analysis of data using the SPSSx package; student presentations at seminars and submit project reports written in the form of a journal article; provides skills, knowledge and competence to students for subsequent work on their selected research topics for their Major Projects.

Group C: Academic Electives**CMED9100****Independent Studies***Staff Contact: Dr L. Lai*

C2

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.

CMED9600**Disability***Staff Contact: Dr L. Lai*

C2

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.

CMED9611**Health of the Elderly***Staff Contact: Dr L. Lai*

C2

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.

CMED9602**Health and Illness Behaviour***Staff Contact: Dr L. Lai*

C2

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.

CMED9603**Communications and Writing in Health***Staff Contact: Dr L. Lai*

C2

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.

CMED9604**Alcohol and Drug Related Problems***Staff Contact: Dr L. Lai*

C2

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.

CMED9605**Health in Developing Countries***Staff Contact: Dr L. Lai*

C2

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.

CMED9606**Women and Health***Staff Contact: Dr L. Lai*

C2

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.

CMED9609**Community Genetics***Staff Contact: Dr L. Lai*

C2

Brief discussion of essentials of human genetics and new development; role of genetics in community health; individuals at risk; genetic disorders including congenital,

chromosomal and single-gene defects; their causes and distribution in different populations; health services comprising genetic counselling, screening, carrier detection, pre-symptomatic diagnosis, prenatal diagnosis, and laboratory investigation, and their planning and funding; support groups as related to types of genetic disorder; basic training of genetics in medicine; education and prevention; social, moral and ethical issues involved in the provision of genetic services.

CMED9607

Researching Womens Health

Staff Contact: Dr L. Lai

C2

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.

CMED9608

Rural Health Studies 1

Staff Contact: Dr L. Lai

C2

Notes: External course, 4 teleconferences, one 2 day workshop mid-term.

Examine roles, needs, and particular health and welfare issues of rural general practitioner services; explore methods for professional development of rural GPs; study public health issues of particular relevance to rural general practice; study data collection and analysis to help identify rural health problems, their management and prevention; plan and evaluate the promotion of health, and prevention of disease through individual and community health education programs in rural communities.

CMED9610

Community Nutrition

Staff Contact: Dr L. Lai

C2

Introduction to nutrition and health; increasing interest in nutrition by population in general, epidemiological evidence of nutrition-related diseases and the increasing cost of treating these diseases, and common nutrition-related health disorders in the Australian community; various nutritional assessment techniques; nutrition information versus misinformation; location and utilisation of nutrition resources; recommendations about nutrition by instrumentalities such as the Health For All Taskforce and the Better Health Commission.

CMED9612

Environmental Health

Staff Contact: Dr L. Lai

C2

To introduce the principles of epidemiology, particularly in reference to environmental risk factors of disease and in reference to such principles as incidence and prevalence, aetiology and risk factors, epidemics and endemics, and primary, secondary and tertiary prevention of disease. In particular, it deals with environment and disease, radiation, chemical, hazards, air and water pollution, biological hazards, urban environment, ecology, ecosystems and interdependence and how these factors affect health, public health issues related to sustainable development.

CMED9613

Health and Public Policy

Staff Contact: Dr L. Lai

C2

The subject deals with 'health' debate over time, elements of health policy, health outcomes and international comparisons. Health in the Federal System, systematic development of health outcomes, stakeholders, program cycle, work of a Minister for Health, discussion of means and ends, Cabinet Government and health policy, concepts and strategies.

CMED9614

Genetic Epidemiology

Staff Contact: Dr L. Lai

C2

Introduction to the study of the interaction of environmental and genetic determinants of diseases; 'simple' Mendelian, polygenic and multifactorial models of disease causation and corresponding patterns of distribution; estimation of genetic parameters; methods of discriminating between models, including recognition of genetic heterogeneity, linkage analysis, segregation analysis, path analysis, the design and interpretation of twin and family studies, 'cohort of genealogies' technique; calculation of risks; effects of genetic intervention; progress of research into diseases such as diabetes and schizophrenia; computing techniques.

CMED9615

Primary Health Care

Staff Contact: Dr L. Lai

C2

The subject provides an overview of primary care in Australia and the application of the PHC approach to Australia and other developed countries. Topics to be covered include, primary care and PHC in Australia, primary medical care and family practice, primary nursing care and generalist community nursing, integration of Community Health Services, healthy cities, self help groups and self care, health promotion, surveillance/monitoring in primary care, advocacy/community development, aboriginal health, community participation.

CMED9618

Ethics in Medicine and Community Health

Staff Contact: Dr L. Lai

C2

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.

CMED9619**Community Paediatrics***Staff Contact: A/Prof J. Gupta*

C2

This subject is offered to students with special interest in issues pertaining to child health. The subject content will include psychosocial development, medical and legal issues of child care, and ambulatory problems of children. Disease prevention and the epidemiological aspects of Child Health will be emphasized. The objectives of this subject are to provide students of community and public health with the knowledge and skills required for future work in child related programs.

CMED9620**Health Promotion in Rural Communities***Staff Contact: Dr L. Lai*

C2

Notes: External Course, 4 teleconferences and one 2 day workshop mid-term

Basic concepts of health promotion as they apply to rural communities; recognising trends in rural communities which affect the health of individuals and the community; understanding barriers to the adoption of preventive action; understanding how effective health promotion and disease prevention strategies are selected, implemented and assessed.

Medical Education
Master of Health Personnel Education**Graduate Diploma of Health Personnel Education****MEED9001****Independent Studies***Staff Contact: Jan Ritchie*

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.

MEED9010**Understanding and Working in Communities***Staff Contact: Jan Ritchie*

C2 S1 HPW2

Notes: 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.

MEED9011**Practicum in Developing Community Projects***Staff Contact: Jan Ritchie*

C2 S2 HPW2

Notes: 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.

MEED9012**Current Approaches to Health Promotion***Staff Contact: Jan Ritchie*

C2 S1 HPW2

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.

MEED9013**Influencing Health Beliefs and Health Behaviours***Staff Contact: Jan Ritchie*

C2 S2 HPW2

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.

MEED9014**Communication and Educational Skills for Community Health Workers***Staff Contact: Jan Ritchie*

C2 S2 HPW2

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.

MEED9101**Learning and Teaching***Staff Contact: Raja Bandaranayake*

C2 S1 HPW2

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 MEED9013.

MEED9102**Educational Process in Small Groups***Staff Contact: Phillip Godwin*

C2 S1 HPW2

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.

MEED9103**Instructional Design***Staff Contact: Phillip Godwin*

C2 S1 HPW2

Application of skills and knowledge gained in MEED9101 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.

MEED9104**Organization and Management for Health Personnel Education***Staff Contact: Graham Roberts*

C2 S1 HPW2

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.

MEED9105**Educational Planning***Staff Contact: Raja Bandaranayake*

C2 S2 HPW2

Builds on the competency based model of instructional development introduced in MEED9103 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.

MEED9106**Teaching Skills***Staff Contact: Phillip Godwin*

C2 S1 HPW2

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).

MEED9107**Assessment of Students***Staff Contact: Raja Bandaranayake*

C2 S2 HPW2

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.

MEED9108**Program Evaluation and Planned Change***Staff Contact: Arie Rotem*

C2 S2 HPW2

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.

MEED9109**Project***Staff Contact: Jan Ritchie*

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.

MEED9110**Workshop in Culture, Subculture and Communication***Staff Contact: Jan Ritchie*

S1 L2

Notes: An Academic Elective. Not offered in 1993.

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.

MEED9111**The Consultation Process***Staff Contact: Graham Roberts*

C2 S2 HPW2

Recommended Prerequisite: MEED9104 or equivalent*Corequisites:* MEED9108, MEED9113, MEED9112**Notes:** 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.

MEED9112**Managing Human Resources in Health***Staff Contact: Graham Roberts*

C2 S2 HPW2

Recommended Prerequisite: MEED9104 or equivalent*Recommended Corequisite:* MEED9108

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.

MEED9113

Evaluation of Instructors

Staff Contact: Graham Roberts

C2 S2 HPW2

Notes: 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.

MEED9115

Educational Selection

Staff Contact: Jan Ritchie

C1 S1 HPW1

Notes: An Academic Elective. Not offered in 1993.

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.

MEED9116

Trends in Health Sciences Curricula

Staff Contact: Raja Bandaranayake

C1 S1 HPW1

Notes: An Academic Elective. Not offered in 1993.

Supplements MEED9105 Educational 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.

MEED9117

Explorations in Personal Learning

Staff Contact: Jan Ritchie

C2 S2 HPW2

Notes: An Academic Elective. Not offered in 1993.

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.

MEED9118

Clinical Problem Solving

Staff Contact: Jan Ritchie

C1 S1 HPW1

Notes: An Academic Elective. Not offered in 1993.

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.

MEED9119

Clinical Decision Making

Staff Contact: Jan Ritchie

C1 S2 HPW1

Notes: An Academic Elective. Not offered in 1993.

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.

MEED9121

Large Group Teaching

Staff Contact: Raja Bandaranayake

C2 S2 HPW2

Notes: 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.

MEED9122

Primary Health Care

Staff Contact: Jan Ritchie

C2 S2 HPW2

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.

MEED9123**Production of Audio Visual Materials***Staff Contact: Jan Ritchie*

C2 S1 HPW2

Notes: 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.

MEED9124**Clinical Teaching***Staff Contact: Jan Ritchie*

C1 S1 HPW1

Notes: An Academic Elective. Not offered in 1993.

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 its relation both to educational theory and to current practice.

MEED9125**Planning, Conducting and Evaluating Educational Workshops***Staff Contact: Raja Bandaranayake*

C1 S1 HPW1

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.

MEED9126**Self Directed Learning and Self Instruction***Staff Contact: Phillip Godwin*

C2 S2 HPW2

Notes: 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.

MEED9127**Research in Education for the Health Professions 1***Staff Contact: Magnus Stjernborg*

C2 S1 HPW2

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.

MEED9128**Research in Education for the Health Professions 2***Staff Contact: Magnus Stjernborg*

C2 S2 HPW2

Prerequisite: MEED9127 or equivalent**Notes:** 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.

Master of Clinical Education**Diploma of Clinical Education****MEED9302****Learning In Small Groups***Staff Contact: Phillip Godwin*

C2 S1, S2 or S3

The course covers the processes of learning in small groups, group formation and changing roles and relationships within groups, diagnosis and management of problems and conflict within the group, effectiveness in handling tasks and making effective decisions, team building, support, leadership of working groups, innovation by group, assessment of group performance. Assignments include study of the development of the group, and the emergence of effective leadership.

MEED9303**Clinical Practice as a Discipline***Staff Contact: Phillip Godwin*

C1 S1, S2 or SC

This course explores the nature professional expertise within clinical practice as a skilled discipline within the streams of general and specialist practice and within the nursing profession. Subject matter includes the varieties of working knowledge (applied knowledge, strategic knowledge, intuitive knowledge, local, situational knowledge, predictive and decision making knowledge, people management knowledge and judgment), of skills in managing logical processes and skills in managing people and procedures. The course also analyses the profession's philosophy, the professional's tasks, roles and responsibilities, and the perspectives and expectations within the health system and community. Assignments are expected to contribute to the understanding and development of the discipline in each health profession.

MEED9304**Learning Clinical Reasoning***Staff Contact: Phillip Godwin*

C2 S1, S2 or S3

The medical stream covers teaching of the steps in the clinical process, inductive and deductive strategies, data collection and its flaws, the reliability of clinical evidence, intuition and clinical memory, investigation and sufficiency of evidence, strength of clinical and investigational evidence, interpretation and misinterpretation, logical processes in clinical inference and plausibility of diagnosis,

and the utility of expert systems and computer-aided diagnosis. For the nursing stream the course diverges to cover the reasoning called upon within different clinical units. Assignments include the study of clinical reasoning in the candidate's setting.

MEED9305

Learning from Experience

Staff Contact: Phillip Godwin

C1 S1, S2 or S3

The course deals with the processes of everyday learning at work, varieties of practical 'embodied' knowledge, the acquisition of motor and management skills, personality and learning preferences, the management of reflection and discussion of insights, the structure of 'clinical memory' and the nature of clinical experience. Assignments include the study of informal learning in the candidate's setting.

MEED9306

Supervision, Mentoring and Feedback

Staff Contact: Phillip Godwin

C2 S1, S2 or S3

This course deals with the processes of teaching motor skills, the stages of moving from novice to expert, the development of judgment, varying aptitude, scaffolding of supervision of practice, and self assessment of habitual performance. The course also deals with the observation and monitoring of daily activities, of supervised practice, of the range of roles and relationships of mentors to their trainees, of effective methods of feedback, and of learning a range of skilled behaviours in instructing, supervising, guiding and counselling. Assignments include study of the development of a procedural skill and skilled performance within the candidate's setting.

MEED9307

Exploring and Managing Ethical and Moral Dilemmas

Staff Contact: Phillip Godwin

C2 S1, S2 or S3

This course deals with teaching the clarification of beliefs, values, attitudes, intentions and behaviour in relation to a wide range of ethical dilemmas, with their cultural, religious and psychological origins and the idiomatic language of their expression, the sequence of learning moral development, the structuring of productive debate, the identification of trade-offs and the weighing of possible outcomes. The beliefs and values of the medical and nursing sub-cultures will be explored. Assignments include reporting on study and practice of the management of these dilemmas.

MEED9308

Learning Clinical Decision Making

Staff Contact: Phillip Godwin

C2 S1, S2 or S3

The medical stream deals with quantitative and qualitative aspects of decision making, management options, ambiguity and sufficiency of evidence at the test-treatment threshold, identification of possible outcomes, calculation of probabilities and utilities for each outcome, structuring with decision analysis, elicitation of patients' preferences, configuration of trade-offs and sensitivity analysis, influences operating in the context and in the personal psychology of doctor and patient, defensibility of decisions, and judgment in making choices under uncertainty. The

nursing stream diverges at many points to cover the particular decisions required of the clinical nurse. Assignments include the analysis of a number of decision processes in the candidate's setting.

MEED9309

Assessment of Clinical Performance

Staff Contact: Phillip Godwin

C2 S1, S2 or S3

This course covers the purposes, location, criteria, methods, timing, frequency, scoring methods and formats, and training of examiners to achieve consistency. The course includes development of assessments undertaken by self, peers, other health workers and patients. The course also addresses issues of judgment of others, and of innovation in developing accurate estimates of practical ability. Assignments include the study of performance assessment, and development of approaches to formative assessment.

MEED9310

Evaluation of Clinical Teaching

Staff Contact: Phillip Godwin

C2 S1, S2 or S3

This course covers evaluation of the planning of clinical teaching, the teaching methods chosen and their effective use, skilled teaching performance, management of the learning environment, self assessment, and evaluation of learning outcomes. Much of the study of clinical teaching is expected to be conducted jointly with the candidate's learning group. Assignments include evaluation of the candidate's management of clinical teaching.

MEED9311

Patient and Family Education

Staff Contact: Phillip Godwin

C2 S1, S2 or S3

This course deals with understanding the health and illness beliefs of patients, their family and their culture, and the factors supporting continuation of particular health behaviours. The course studies coping strategies and mobilization of the patient's and family's adaptive resources in rehabilitation of social function, the methods and skills needed for persuasion to comply with a treatment regimen and to cease self-destructive behaviours. Assignments include evaluation of attempts to improve patient compliance and informed family support for the patient.

MEED9312

Research into Clinical Education

Staff Contact: Phillip Godwin

C2S1, S2 or S3

This course introduces clinical educators to the research methods appropriate for studying complex, multifactorial, interactive, dynamic situations in which few variables can be controlled, either ethically or practically. Critical analysis as consumers of clinical research papers and the use of basic statistical concepts (parametric and non-parametric) and methods will be included. Candidates will plan, undertake and evaluate a research project into clinical education as their principal assignment.

MEED9313**Planning Education Programs***Staff Contact: Phillip Godwin*

C2 S1, S2 or S3

This course deals with the planning, implementation and evaluation of graduate and continuing educational programs, including educational workshops, beginning with identification and clarification of needs, helping adult learners with self-diagnosis of defects, designing instruction and choosing methods of presentation, linking new scientific ideas with the clinical working knowledge and strategies of practitioners, evaluating the effectiveness of programs, and undertaking research into continuing education. Assignments include the planning of an education program appropriate to the candidate's area.

MEED9314**The Ward (or Office) as a Social and Learning Environment***Staff Contact: Phillip Godwin*

C2 S1, S2 or S3

This course uses the clinical setting of the ward, or the office, or the clinic as the unit of study of the formal and informal communication and management processes, professional role definition and socialization into sub-cultural belief patterns, sharing of decision making, expectations and stresses, coping strategies and stress management, analysis of social pathology, relation between task and maintenance functions and the resolution of conflict, staff job satisfaction and turnover, and effectiveness for learning. Assignments include a report on the candidate's working environment.

MEED9315**Clinical Teaching***Staff Contact: Phillip Godwin*

C3 S1, S2 or S3

The course includes the planning and administration of clinical teaching programs, preparation of the learners including assessment of the learner's readiness, learning of manual skills on simulated patients, management of the learning environment, briefing before patient encounter, demonstration of skills, perceptual skills in data collection, debriefing and reflection on the clinical encounter, and forward planning of reading and further practice. The course also deals with the micro-skills of listening, questioning, probing and challenging, demonstrating, and involving the patient and other staff. Assignments include the study of the candidate's clinical teaching and the study and practice of clinical micro-skills.

MEED9316**Learning Consulting Skills***Staff Contact: Phillip Godwin*

C3 S1, S2 or S3

The medical stream deals with the identification and learning of consulting skills in communicating with patients, families and colleagues, in clarifying illness problems, in acquiring accurate information, interpreting evidence and diagnosing disease, in handling ambiguity and uncertainty, and in negotiating trade-offs among management options. Differences between generalist and specialist tasks and contexts will be explored. Consulting skills in the nursing stream parallel these, but with differing responsibilities in assessment and patient care. Assignments include study

of communication and management skills in the candidate's setting.

MEED9351**Independent Study***Staff Contact: Phillip Godwin*

C1 S1, S2 or S3

MEED9352**Independent Study***Staff Contact: Phillip Godwin*

C2 S1, S2 or S3

MEED9353**Independent Study***Staff Contact: Phillip Godwin*

C3 S1, S2 or S3

MEED9354**Independent Study***Staff Contact: Phillip Godwin*

C4 S1, S2 or S3

Candidates may contract to undertake an Independent Study on a particular field of interest or clinical educational research. The number of credit points may range from one to four, according to the size of the independent study.

Elective Studies

Elective studies may be taken, after approval, in other Schools of the University, or in other Universities, if the studies contribute to the aims of the program.

Supervision

Before enrolment, the Head of the School of Medical Education shall be satisfied that adequate supervision and facilities are available.

Paediatrics**Master of Paediatrics****Diploma of Paediatrics****PAED9100****General Paediatrics and Child Health***Staff Contact: A/Prof J. Gupta*

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.

Prenatal development and prenatal and perinatal experiences, which affect the growing foetus and infant. Necessary professional supervised 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.

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.

PAED9104

Clinical and Technical Skills

Staff Contact: A/Prof J. Gupta

Taking of medical histories, physical examination and technical procedures. Supervised 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.

PAED9105

Clinical Paediatric Experience 1

Staff Contact: A/Prof J. Gupta

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

PAED9201

General Paediatrics 2

Staff Contact: A/Prof J. Gupta

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 supervised professional experiences involving increasing professional responsibility.

PAED9202

Organization of Health Services 1

Staff Contact: A/Prof J. Gupta

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

PAED9203

Medical Statistics

Staff Contact: A/Prof J. Gupta

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

PAED9204

Clinical Paediatric Experience 2

Staff Contact: A/Prof J. Gupta

As for PAED9105 and PAED9302)

PAED9301

Community Paediatrics

Staff Contact: A/Prof J. Gupta

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.

PAED9302

Clinical Paediatric Experience 3

Staff Contact: A/Prof J. Gupta

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.

Pathology

Servicing Subject only: taught within a course offered by another faculty.

PATH9003

Principles of Disease Processes

Staff Contact:

C3 S1 L3

Prerequisites: PHPH2112 or equivalent, ANAT2111 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.

Psychiatry

Master of Psychotherapy

PSCY9103

Theroetical Basis of Therapy

Staff Contact: Prof. G. Andrews

C5 S1

Techniques for the evaluation of therapy of major mental disorders, classification of mental disorders and use of structured diagnostic instruments. The history and current status of cognitive behavioural psychotherapy. The structured problem solving and behavioural analysis techniques.

PSCY9104

Cognitive Behavioural Psychotherapy 1

Staff Contact: Prof. G. Andrews

C10 S2

PSCY9205

Cognitive Behavioural Psychotherapy 2

Staff Contact: Prof. G. Andrews

C10 S1

Specific cognitive behavioural techniques for the treatment of the anxiety and depressive disorders, marital and sexual disorders, eating disorders, schizophrenia and chronic pain syndromes.

Clinical placements for each student will be arranged in which they will observe the range of treatments taught. They will then be supervised as they treat such patients within their own practices. These segments of the course have significant and irregular time requirements. The educational model is designed to ensure that students learn about a treatment, see it being carried out by an expert, and then carry it out themselves under supervision.

PSCY9206**Project Report***Staff Contact: Prof. G. Andrews*

C5 S2

Students will be required to develop, in an academic treatise, an evaluation of the treatment of a selection of their cases as examples of how the basic principles of cognitive behaviour therapy applied to the specific characteristics of the individual patient's treatment can be integrated with the current research literature.

Master of Psychological Medicine**PSCY9106****Psychological Medicine 1***Staff Contact: Prof. G. Andrews*

C5 S1 70hrs

The diagnosis, classification and epidemiology of mental disorders; the doctor as therapist; the tenets of good diagnostic interviewing and good clinical care; the evaluation of treatment; the use of micro counselling and structured problem solving techniques. Case discussions to illustrate these therapy techniques.

PSCY9107**Psychological Medicine 2***Staff Contact: Prof. G. Andrews*

C5 S2 70hrs

The recognition and treatment of manic and depressive disorders and of the anxiety disorders. The use of pharmacological and cognitive behavioural techniques in these disorders. Crisis resolution in such disorders. Case

discussions, including the presentation of material from patients currently in treatment, to illustrate these techniques.

PSCY9208**Psychological Medicine 3***Staff Contact: Prof. G. Andrews*

C5 S1 70hrs

The recognition and management of cognitive impairment, dementia, and other organic syndromes. The recognition of schizophrenia and personality disorders. Crisis resolution and good clinical care for such patients. Case discussions, including the presentation of material from patients currently in treatment, to illustrate such care.

PSCY9209**Psychological Medicine 4***Staff Contact: Prof. G. Andrews*

C5 S2 70hrs

Recognition and management of problems arising within marriage and the family. Recognition and management of disorders of children, adolescents, and the elderly presenting in general practice. Case discussions, including the presentation of material from patients currently in treatment, to illustrate the techniques.

PSCY9210**Project Report***Staff Contact: Prof. G. Andrews*

C10 F 140hrs

Either an account of patients treated integrating literature, therapy and evaluation of outcome, or a research project related to psychiatry in general practice.

Conditions for the Award of Degrees

First 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 Table of Courses by Faculty (Undergraduate Study) in the Calendar.

The following is the list of *higher degrees, graduate diplomas and graduate certificates* of the University, together with the publication in which the conditions for the award appear.

Higher Degrees

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.

Title	Abbreviation	Calendar/Handbook
Higher Degrees		
Doctor of Science	DSc	Calendar
Doctor of Letters	DLitt	Calendar
Doctor of Laws	LLD	Calendar
Doctor of Education	EdD	Professional Studies
Doctor of Medicine	MD	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 Art	MArt	College of Fine Arts
Master of Arts Administration	MArtAdmin	College of Fine Arts
Master of Art Education	MArtEd	College of Fine Arts
Master of Arts	MA	Arts and Social Sciences University College
Master of Art Theory	MArtTh	College of Fine Arts
Master of Biomedical Engineering	MBiomedE	Engineering
Master of Building	MBuild	Architecture
Master of the Built Environment	MBEnv	Architecture
Master of the Built Environment (Building Conservation)	MBEnv	Architecture
Master of Business Administration	MBA	AGSM
Master of Business and Technology	MBT	Engineering
Master of Chemistry	MChem	Science*

Title	Abbreviation	Calendar/Handbook
Master of Clinical Education	MClinEd	Medicine
Master of Cognitive Science	MCogSc	Engineering
Master of Commerce (Honours)	MCom(Hons)	Commerce and Economics
Master of Commerce	MCom	Commerce and Economics
Master of Community Health	MCH	Medicine
Master of Computer Science	MCompSc	Engineering
Master of Construction Management	MConstMgt	Architecture
Master of Education	MEd	Professional Studies
Master of Education in Creative Arts	MEdCA	Professional Studies
Master of Educational Administration	MEdAdmin	Professional Studies
Master of Engineering	ME	Applied Science Engineering University College
Master of Engineering <i>without supervision</i>	ME	Applied Science Engineering
Master of Engineering Science	MEngSc	Engineering Applied Science University College
Master of Environmental Studies	MEnvStudies	Applied Science
Master of Fine Arts	MFA	College of Fine Arts
Master of Health Administration	MHA	Professional Studies
Master of Health Personnel Education	MHPed	Medicine
Master of Health Planning	MHP	Professional Studies
Master of Higher Education	MHEd	Professional Studies
Master of Industrial Design	MID	Architecture
Master of Information Science	MInfSc	Engineering
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 Management Economics	MMgtEc	University College
Master of Mathematics	MMath	Science*
Master of Music	MMus	Arts and Social Sciences
Master of Nursing Administration	MNA	Professional Studies
Master of Optometry	MOptom	Science*
Master of Paediatrics	MPaed	Medicine
Master of Physics	MPhysics	Science*
Master of Policy Studies	MPS	Arts and Social Sciences
Master of Project Management	MPM	Architecture
Master of Public Health	MPH	Medicine Professional Studies
Master of Psychological Medicine	MPM	Medicine
Master of Psychology (Applied)	MPsychol	Science†
Master of Psychology (Clinical)	MPsychol	Science†
Master of Psychotherapy	MPsychotherapy	Medicine
Master of Safety Science	MSafetySc	Applied Science
Master of Science	MSc	Applied Science Architecture Engineering Medicine Science*† University College
Master of Science <i>without supervision</i>	MSc	Applied Science Architecture Engineering
Master of Science (Acoustics)	MSc(Acoustics)	Architecture
Master of Science (Industrial Design)	MSc(IndDes)	Architecture
Master of Science and Society	MScSoc	Arts and Social Sciences
Master of Social Work	MSW	Professional Studies
Master of Sports Science	MSPSc	Professional Studies
Master of Statistics	MStats	Science*
Master of Surgery	MS	Medicine
Master of Surveying	MSurv	Engineering

Title	Abbreviation	Calendar/Handbook
Master of Surveying <i>without supervision</i>	MSurv	Engineering
Master of Surveying Science	MSurvSc	Engineering
Master of Town Planning	MTP	Architecture
Graduate Diplomas		
Graduate Diploma	GradDip	AGSM Applied Science Architecture Arts and Social Sciences Engineering Science*†
	GradDipHPed	Medicine
	GradDipClinEd	Medicine
	GradDipPaed	Medicine
	GradDipHEd	Professional Studies
	DipEd	Professional Studies
	DiplM-ArchivAdmin	Professional Studies
	DiplM-Lib	Professional Studies
	DipFDA	Science*
Graduate Certificates		
	GradCertPhilT	Arts and Social Sciences
	GradCertHEd	Professional Studies

*Faculty of Science.

†Faculty of Biological and Behavioural Sciences.

Doctor of Philosophy (PhD)

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.

Qualifications

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.

Enrolment

3.(1) An application to enrol as a candidate for the degree shall be lodged with the Registrar at least one month prior to the date at which enrolment is to begin.

(2) In every case before making the offer of a place the Committee shall be satisfied that initial agreement has been reached between the School* and the applicant on the topic area,

*"School" is used here and elsewhere in these conditions to mean any teaching unit authorised to enrol research students and includes a department where that department is not within a school, a centre given approval by the Academic Board to enrol students, and an interdisciplinary unit within a faculty and under the control of the Dean of the Faculty. Enrolment is permitted in more than one such teaching unit.

supervision arrangements, provision of adequate facilities and any coursework to be prescribed and that these are in accordance with the provisions of the guidelines for promoting postgraduate study within the University.

(3) The candidate shall be enrolled either as a full-time or a part-time student.

(4) A full-time candidate will present the thesis for examination no earlier than three years and no later than five years from the date of enrolment and a part-time candidate will present the thesis for examination no earlier than four years and no later than six years from the date of enrolment, except with the approval of the Committee.

(5) The candidate may undertake the research as an internal student i.e. at a campus, teaching hospital, or other research facility with which the University is associated, or as an external student not in attendance at the University except for periods as may be prescribed by the Committee.

(6) An internal candidate will normally carry out the research on a campus or at a teaching or research facility of the University except that the Committee may permit a candidate to spend a period in the field, within another institution or elsewhere away from the University provided that the work can be supervised in a manner satisfactory to the Committee. In such instances the Committee shall be satisfied that the location and period of time away from the University are necessary to the research program.

(7) The research shall be supervised by a supervisor and where possible a co-supervisor who are members of the academic staff of the School or under other appropriate supervision arrangements approved by the Committee. Normally an external candidate within another organisation or institution will have a co-supervisor at that institution.

Progression

4. The progress of the candidate shall be considered by the Committee following report from the School in accordance with the procedures established within the School and previously noted by the Committee.

(i) The research proposal will be reviewed as soon as feasible after enrolment. For a full-time student this will normally be during the first year of study, or immediately following a period of prescribed coursework. This review will focus on the viability of the research proposal.

(ii) Progress in the course will be reviewed within twelve months of the first review. As a result of either review the Committee may cancel enrolment or take such other action as it considers appropriate. Thereafter, the progress of the candidate will be reviewed annually.

Thesis

5.(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 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 and Social Sciences 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

- 6.(1) There shall be not fewer than three examiners of the thesis, appointed by 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 one of the following:
- (a) The thesis merits the award of the degree.
 - (b) The thesis merits the award of the degree subject to minor corrections as listed being made to the satisfaction of the head of school.
 - (c) The thesis requires further work on matters detailed in my report. Should performance in this further work be to the satisfaction of the higher degree Committee, the thesis would merit the award of the degree.
 - (d) The thesis does not merit the award of the degree in its present form and further work as described in my report is required. The revised thesis should be subject to re-examination.
 - (e) The thesis does not merit the award of the degree and does not demonstrate that resubmission would be likely to achieve that merit.
- (3) If the performance at the further work 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 work, 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.

Fees

7. A candidate shall pay such fees as may be determined from time to time by the Council.

Doctor of Medicine (MD) by published work

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.

Qualification

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.

Enrolment and Progression

3. A candidate for the degree on the basis of published work shall lodge with the 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;

**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.*

(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.

Examination

5. There shall normally be three examiners of the work, appointed by 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.

Fees

8. A candidate shall be required to pay such fees as may be determined from time to time by the Council.

Doctor of Medicine (MD) *by thesis*

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 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 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 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.

*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

5. (1) There shall be not fewer than three examiners of the thesis, appointed by 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.

Fees

6. A candidate shall pay such fees as may be determined from time to time by the Council.

Doctor of Medicine (MD) *by thesis without supervision*

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.

Qualifications

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.

Enrolment and Progression

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 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.

Thesis

4. (1) A candidate shall submit a thesis embodying the results of the investigation.
- (2) A candidate shall give in writing to the 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;

*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.

- (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 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.

Fees

- 6. A candidate shall be required to 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 Community Health (MCH) *by Research*

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.

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 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

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 Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.

(2) In every case before making the offer of a place the Committee shall be satisfied that initial agreement has been reached between the School of Community Medicine and the applicant on the topic area, supervision arrangements, provision of adequate facilities and any coursework to be prescribed and that these are in accordance with the provisions of the guidelines for promoting postgraduate study within the University.

(3) The candidate shall be enrolled as either a full-time or part-time student.

(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 candidate may undertake the research as an internal student ie at a campus, teaching hospital, or other research facility with which the University is associated, or as an external student not in attendance at the University except for periods as may be prescribed by the Committee.

(6) An internal candidate will normally carry out the research on a campus or at a teaching or research facility of the University except that the Committee may permit a candidate to spend a period in the field, within another institution or elsewhere away from the University provided that the work can be supervised in a manner satisfactory to the Committee. In such instances the Committee shall be satisfied that the location and period of time away from the University are necessary to the research program.

(7) The research shall be supervised by a supervisor or supervisors who are members of the academic staff of the School or under other appropriate supervision arrangements approved by the Committee. Normally an external candidate within another organization or institution will have a co-supervisor at that institution.

(8) 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.

(9) 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.

Progression

4. The progress of the candidate shall be considered by the Committee following report from the School in accordance with the procedures established within the School and previously noted by the Committee.

(i) The research proposal will be reviewed as soon as feasible after enrolment. For a full-time student this will normally be during the first year of study, or immediately following a period of prescribed coursework. This review will focus on the viability of the research proposal.

(ii) Progress in the course will be reviewed within twelve months of the first review. As a result of either review the Committee may cancel enrolment or take such other action as it considers appropriate. Thereafter, the progress of the candidate will be reviewed annually.

Thesis

5. (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 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.

Examination

6. (1) There shall be not fewer than two examiners of the thesis, appointed by 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 thesis merits the award of the degree.

(b) The thesis merits the award of the degree subject to minor corrections as listed being made to the satisfaction of the head of School.

(c) The thesis requires further work on matters detailed in my report. Should performance in this further work be to the satisfaction of the Higher Degree Committee, the thesis would merit the award of the degree.

(d) The thesis does not merit the award of the degree in its present form and further work as described in my report is required. The revised thesis should be subject to re-examination.

(e) The thesis does not merit the award of the degree and does not demonstrate that resubmission would be likely to achieve that merit.

(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

7. 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 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*

1. 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 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.

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 Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.
- (2) In every case before making the offer of a place the Committee shall be satisfied that initial agreement has been reached between the School of Medical Education and the applicant on the topic area, supervision arrangements, provision of adequate facilities and any coursework to be prescribed and that these are in accordance with the provisions of the guidelines for promoting postgraduate study within the University.
- (3) The candidate shall be enrolled as either a full-time or part-time student.
- (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 candidate may undertake the research as an internal student ie at a campus, teaching hospital, or other research facility with which the University is associated, or as an external student not in attendance at the University except for periods as may be prescribed by the Committee.
- (6) An internal candidate will normally carry out the research on a campus or at a teaching or research facility of the University except that the Committee may permit a candidate to spend a period in the field, within another institution or elsewhere away from the University provided that the work can be supervised in a manner satisfactory to the Committee. In such instances the Committee shall be satisfied that the location and period of time away from the University are necessary to the research program.
- (7) The research shall be supervised by a supervisor or supervisors who are members of the academic staff of the School or under other appropriate supervision arrangements approved by the Committee. Normally an external candidate within another organization or institution will have a co-supervisor at that institution.
- (8) 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.
- (9) 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.

Progression

- 4. The progress of the candidate shall be considered by the Committee following report from the School in accordance with the procedures established within the School and previously noted by the Committee.
- (i) The research proposal will be reviewed as soon as feasible after enrolment. For a full-time student this will normally be during the first year of study, or immediately following a period of prescribed coursework. This review will focus on the viability of the research proposal.
- (ii) Progress in the course will be reviewed within twelve months of the first review. As a result of either review the Committee may cancel enrolment or take such other action as it considers appropriate. Thereafter, the progress of the candidate will be reviewed annually.

Thesis

5. (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 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.

Examination

6. (1) There shall be not fewer than two examiners of the thesis, appointed by 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 thesis merits the award of the degree.
 - (b) The thesis merits the award of the degree subject to minor corrections as listed being made to the satisfaction of the head of School.
 - (c) The thesis requires further work on matters detailed in my report. Should performance in this further work be to the satisfaction of the Higher Degree Committee, the thesis would merit the award of the degree.
 - (d) The thesis does not merit the award of the degree in its present form and further work as described in my report is required. The revised thesis should be subject to re-examination.
 - (e) The thesis does not merit the award of the degree and does not demonstrate that resubmission would be likely to achieve that merit.
- (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

7. A candidate shall pay such fees as may be determined from time to time by the Council.

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 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 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 three academic sessions from the date of enrolment in the case of a full-time candidate or five 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 Clinical Education (MClEd)

1. The degree of Master of Clinical Education 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 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 Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), and
 - (b) be actively engaged in clinical education.
- (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 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 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 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 and eight sessions for a part-time candidate. In special cases an extension of time may be granted by the Committee.

Examination

4. (1) Assessments will be based on assignments undertaken during and at the end of each subject. All assignments must be passed.
- (2) The degree of Master of Clinical Education will be awarded after satisfactory completion of a program of advanced study which achieves 24 credit points and submission of a satisfactory Major Project report based on at least one semester of applied development or research in clinical education.

Fees

5. A candidate shall pay fees as may be determined from time to time by the Council of the University.

Master of Paediatrics (MPaed)

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.

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 been awarded the Graduate Diploma in Paediatrics or equivalent.
- (c) have had at least two year's professional experience in paediatrics and at least one of these years must be in professional activities of a community nature outside the hospital 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.

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 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 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 four academic sessions from the date of enrolment. 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.

Master of Psychological Medicine

1. The degree of Master of Psychological Medicine 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 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).

(2) A candidate shall have had at least three years full time experience in the practice of medicine and be currently so engaged.

(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 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 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 four academic sessions. The maximum period of candidature shall be eight academic sessions. In special cases a variation to 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 Psychotherapy (MPsychotherapy)

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.

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 from 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 have been awarded a Fellowship, or be eligible to sit part one of the examination of the Royal Australian and New Zealand College of Physicians (FRANZCP or FRANZCP part one eligible) or

b) have been awarded the degree of Master of Psychology (Clinical) from the University of New South Wales or another university of 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 course 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 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 register as a part-time student at the University and 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 four 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.

Fees

4. A candidate shall pay such fees as may be determined from time to time by the Council.

Master of Public Health (MHP) by Research

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.

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 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 institution 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.

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 Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.
- (2) In every case before making the offer of a place the Committee shall be satisfied that initial agreement has been reached between the School of Medical Education and the applicant on the topic area, supervision arrangements, provision of adequate facilities and any coursework to be prescribed and that these are in accordance with the provisions of the guidelines for promoting postgraduate study within the University.
- (3) The candidate shall be enrolled as either a full-time or part-time student.
- (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 candidate may undertake the research as an internal student i.e. at a campus, teaching hospital, or other research facility with which the University is associated, or as an external student not in attendance at the University except for periods as may be prescribed by the Committee.
- (6) An internal candidate will normally carry out the research on a campus or at a teaching or research facility of the University except that the Committee may permit a candidate to spend a period in the field, within another institution or elsewhere away from the University provided that the work can be supervised in a manner satisfactory to the Committee. In such instances the Committee shall be satisfied that the location and period of time away from the University are necessary to the research program.
- (7) The research shall be supervised by a supervisor or supervisors who are members of the academic staff of the School or under other appropriate supervision arrangements approved by the Committee. Normally an external candidate within another organization or institution will have a co-supervisor at that institution.
- (8) 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.
- (9) 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.

Progression

4. The progress of the candidate shall be considered by the Committee following report from the School in accordance with the procedures established within the School and previously noted by the Committee.
- (i) The research proposal will be reviewed as soon as feasible after enrolment. For a full-time student this will normally be during the first year of study, or immediately following a period of prescribed coursework. This review will focus on the viability of the research proposal.
- (ii) Progress in the course will be reviewed within twelve months of the first review. As a result of either review the Committee may cancel enrolment or take such other action as it considers appropriate. Thereafter, the progress of the candidate will be reviewed annually.

Thesis

5. (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 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.

Examination

6. (1) There shall be not fewer than two examiners of the thesis, appointed by 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 thesis merits the award of the degree.

(b) The thesis merits the award of the degree subject to minor corrections as listed being made to the satisfaction of the head of School.

(c) The thesis requires further work on matters detailed in my report. Should performance in this further work be to the satisfaction of the Higher Degree Committee, the thesis would merit the award of the degree.

(d) The thesis does not merit the award of the degree in its present form and further work as described in my report is required. The revised thesis should be subject to re-examination.

(e) The thesis does not merit the award of the degree and does not demonstrate that resubmission would be likely to achieve that merit.

(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

7. A candidate shall pay such fees as may be determined from time to time by the Council.

Master of Public Health by Formal Course Work

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.

Qualifications

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.

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 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.

Fees

4. A candidate shall pay such fees as may be determined from time to time by the Council.

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 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.

"School" is used here and elsewhere in these conditions to mean any teaching unit authorised to enrol research students and includes a department where that department is not within a school, a centre given approval by the Academic Board to enrol students, and an interdisciplinary unit within a faculty and under the control of the Dean of the Faculty. Enrolment is permitted in more than one such teaching unit.

(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 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 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.

Fees

6. A candidate shall pay such fees as may be determined from time to time by the Council.

Master of Engineering (ME), Master of Science (MSc) and Master of Surveying (MSurv) without supervision

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.

Qualifications

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.

Enrolment and Progression

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 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.

Thesis

4. (1) A candidate shall submit a thesis embodying the results of the investigation.
- (2) The candidate shall give in writing to the 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.

Examination

5. (1) There shall be not fewer than two examiners of the thesis, appointed by 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.
- (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
 - (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 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.
- (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

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 Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.
- (2) (2) In every case before making the offer of a place the Committee shall be satisfied that initial agreement has been reached between the School* and the applicant on the topic area, supervision arrangements, provision of adequate facilities and any coursework to be prescribed and that these are in accordance with the provisions of the guidelines for promoting postgraduate study within the University.
- (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;

*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..

- (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.
- (6) The research shall be supervised by a supervisor or supervisors who are members of the academic staff of the School or under other appropriate supervision arrangements approved by the Committee. Normally an external candidate within another organization or institution will have a co-supervisor at that institution.
- (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) 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.
- (9) 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.

Progression

- 4. The progress of the candidate shall be considered by the Committee following report from the School in accordance with the procedures established within the School and previously noted by the Committee.
- (i) The research proposal will be reviewed as soon as feasible after enrolment. For a full-time student this will normally be during the first year of study, or immediately following a period of prescribed coursework. This review will focus on the viability of the research proposal.
- (ii) Progress in the course will be reviewed within twelve months of the first review. As a result of either review the Committee may cancel enrolment or take such other action as it considers appropriate. Thereafter, the progress of the candidate will be reviewed annually.

Thesis

- 5. (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 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.

Examination

- 6. (1) There shall be not fewer than three examiners of the thesis, appointed by 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 thesis merits the award of the degree.
 - (b) The thesis merits the award of the degree subject to minor corrections as listed being made to the satisfaction of the head of School.
 - (c) The thesis requires further work on matters detailed in my report. Should performance in this further work be to the satisfaction of the Higher Degree Committee, the thesis would merit the award of the degree.
 - (d) The thesis does not merit the award of the degree in its present form and further work as described in my report is required. The revised thesis should be subject to re-examination.
 - (e) The thesis does not merit the award of the degree and does not demonstrate that resubmission would be likely to achieve that merit.
- (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

7. A candidate shall pay such fees as may be determined from time to time by the Council.

Graduate Diploma in Clinical Education (GradDipClinEd)

1. The Graduate Diploma in Clinical Education 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 diploma shall:

- (a) have been awarded the 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 Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), and
- (b) be actively engaged in clinical education.

(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 diploma.

(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 diploma shall be made on the prescribed form which shall be lodged with the 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. The Graduate Diploma in Clinical Education will be awarded after satisfactory completion of a program of advanced study which achieves 20 credit points and submission of a satisfactory Major Project report based on at least one semester of applied development of research in clinical education.

(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 part-time 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.

Examination

Assessments will be based on assignments undertaken during and at the end of each subject. All assignments must be passed.

Fees

4. A candidate shall pay such fees as may be determined from time to time by the Council.

Graduate Diploma in Paediatrics (GradDipPaed)

1. 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 diploma 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 diploma.

(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 diploma shall be made on the prescribed form which shall be lodged with the Registrar at least two calendar months before the commencement of the course (which is in January each year).

(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 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.

Graduate Diploma in Health Personnel Education (GradDipHPed)

1. The Graduate Diploma in Health Personnel Education 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 diploma 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 Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), or

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 diploma.

(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 diploma shall be made on the prescribed form which shall be lodged with the Registrar 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 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.

Scholarships and Prizes

The scholarships and prizes listed below are available to students whose courses are listed in this book. 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 scholarships and prizes offered throughout the University. Applicants should note that the awards and conditions are subject to review.

Key: V Value T Year/s of Tenure C Conditions

Scholarships

Undergraduate Scholarships

Listed below is an outline in summary form of undergraduate scholarships available to students. Full information may be obtained from the Student Centre located on the Lower Ground Floor of the Chancellery.

Unless otherwise indicated in footnotes, applications for the following scholarships should be made to the Registrar and Deputy Principal by 14 January each year. Please note that not all of these awards are available every year.

General

John Crawford Scholarship Scheme

- V Tuition fees. Some students may be eligible for airfares and a stipend.
- T Determined by normal course duration
- C Information should be obtained from Australian Diplomatic Posts. Conditions and entitlements vary depending on the home country. The closing date is normally early in the year before the year of study.

Sam Cracknell Memorial

- V Up to \$1500 pa payable in fortnightly instalments
- T 1 year
- C 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

- V Up to \$1500 pa
- T 1 year with the prospect of renewal subject to satisfactory progress and continued demonstration of need
- C 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

- V Up to \$6500 pa
- T 1 year renewable for the duration of the course subject to satisfactory progress
- C 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. Applications close 30 September each year. Apply directly to PO Box 460 Broken Hill NSW 2880

Alumni Association

- V Up to \$1500 pa
- T 1 year with the possibility of renewal
- C 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 international students.

Sporting Scholarships

- V \$2000 pa
- T 1 year with possibility of renewal
- C Available to students who are accepted into a course of at least two years duration. Prospective applicants should have an outstanding ability in a particular sport and are expected to be an active member of a UNSW Sports Club. Apply directly to Sport and Recreation Section, PO Box 1, Kensington 2033.

Graduate Scholarships

Listed below is an outline in summary form of Graduate Scholarships available to students. Application forms and further information are available from the Scholarships Unit and Student Centre, located on the Ground Floor of the Chancellery, unless an alternative contact address is provided. Normally applications become available four to six weeks before the closing date. 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;*

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. Applicants should note that the awards and conditions are subject to review.

*Available for reference in the University Library.

Australian Postgraduate Research Awards

- T 1-2 years for a Masters and 3-4 years for a PhD degree
- V \$14,260 to \$18,403
- C 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 Registrar by 31 October.

Australian Postgraduate Course Awards

- V Living allowance of \$11,214 pa. Other allowances may also be paid. Tax free.
- T 1-2 years; minimum duration of course
- C Applicants must be graduates or scholars who will graduate in current academic year, and who have not previously held a Commonwealth Postgraduate Award. Applicants must be domiciled in Australia. Preference is given to applicants with employment experience. Applications to the Registrar by 30 September.

John Crawford Scholarship Scheme

- V Tuition fees. Some students may be eligible for air fares and a stipend.
- T Determined by normal course duration
- C Information should be obtained from Australian Diplomatic Posts. Conditions and entitlements vary depending on the home country.

Overseas Postgraduate Research Scholarships

- V Tuition fees only
- T 2 years for a Masters and 3 years for a PhD degree
- C Eligibility is confined to postgraduate research students who are citizens of countries other than Australia or New Zealand. Applications to the Registrar by 30 September.

General

University Postgraduate Research Scholarships

- T 1-2 years for a Masters and 3-4 years for a PhD degree
- V Living allowance of \$14,260 pa. Other allowances may also be paid. Tax free.
- C Applicants must be honours graduates or equivalent in the Medicine or Commerce faculties, or the University College, Australian Defence Force Academy. A limited number of scholarships are offered subject to the availability of funds. Information should be obtained from the Faculty office.

Australian American Educational Foundation Fulbright Award

- V** Travel expenses and \$A2000 as establishment allowance
- T** 1 year, renewable
- C** 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. Application forms are available from the Associate Registrar, University of Sydney, NSW 2006, telephone (02) 692 2222.

Australian Federation of University Women

- V** Amount varies, depending on award
- T** Up to 1 year
- C** Applicants must be female graduates who are members of the Australian Federation of University Women. Further enquiries may be directed to the Secretary of the Federation, (telephone (02) 232 5629).

Commonwealth Scholarship and Fellowship Plan

- V** Varies for each country. Generally covers travel, living, tuition fees, books and equipment, approved medical expenses. Marriage allowance may be payable.
- T** Usually 2 years, sometimes 3
- C** 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 the Registrar in early October.

Medicine

Oxford Nuffield Medical Fellowship

- V** Living and travel allowances, tuition fees
- T** 2-3 years
- C** Clinical Assistantship at Oxford University. Applicants must be graduates of a university in a Commonwealth

country. Applications close with the Registrar 1 November.

Sir Robert Menzies Memorial Scholarships in Law and Medicine

- V** Tuition fees and allowances for living, travel and equipment expenses
- T** 1-2 years
- C** Applicants must be between 21 and 35 years of age and domiciled in Australia. Tenable at universities in the United Kingdom. Applications close 31 August with Sir Robert Menzies Memorial Trust, 210 Clarendon Street, East Melbourne, Vic 3002.

The following organizations make available grants-in-aid for research in medical and related fields to enable graduates to undertake graduate study and research for higher degrees.

The Australian Kidney Foundation

- C** 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, Garra, ACT 2605.

The National Health and Medical Research Council

- V** \$20,010 pa tax free
- T** 2-3 years renewable
- C** Applications for medical scholarships close 15 June and for biomedical scholarships close 30 September, with the Registrar

National Heart Foundation of Australia

- V** \$9982-15,440 pa plus allowance
- T** 1 year renewable
- C** Applications close 31 May with The Secretary, NHF, PO Box 2, Woden, ACT 2606. An alternative closing date of 31 October applies to Postgraduate Science Research Scholarships to accommodate students currently in the final year leading to the award of the degree of Bachelor of Science at honours level.

The Asthma Foundation of New South Wales

- C** Applications close 4 August with the Asthma Foundation 1-12 Angel Place, Sydney, NSW 2000

Prizes

Undergraduate University Prizes

The following information summarizes 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 of the Chancellery.

General

The Sydney Technical College Union Award

- V \$400.00 and Bronze Medal
- C Leadership in student affairs combined with marked academic proficiency by a graduand

The University of New South Wales Alumni

- V Statuette Association Prize
- C Achievement for community benefit by a student in the final or graduating year

Faculty of Medicine

The Australian College of Occupational Medicine Prize

- V \$200.00
- C The best essay/topic in the field of Occupational Health and Safety, Occupational Disease and Injury or Occupational Medicine

The Australian Medical Association Prize for General Practice

- V \$300.00
- C The best report based on the period of attachment in general practice

The Combined Teaching Hospitals Senior Staff Prize

- V \$500.00
- C The best performance in the clinical years of courses 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Drug and Alcohol Foundation Prize

- V \$250.00
- C The best essay or article on Alcoholism and/or Drug Abuse

The Foundation Year Graduates Medal

- V Silver Medal
- C Leadership and fellowship by a graduand in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Medical Women's Society of New South Wales

- V \$150.00
- C The best performance by a female student throughout the course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Prince of Wales Hospital Ladies Auxiliary Prize

- V \$500.00
- C The best performance in Years 1 and 2 of the course 3801 (BSc(Med)MBBS) or in the undergraduate medicine component of years 1, 2 and 3 of the course 3840 (BA BSc(Med)MBBS)

The Wallace Wurth Prize

- V \$200.00
- C The best overall performance in any graduating year by a student enrolled in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The W.G. Telleson Memorial Prize

- V \$31.50
- C The best performance in MDSG3001 Clinical Studies by a student in Year 3 of course 3801 (BSc(Med)MBBS) or year 4 of courses 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

School of Anatomy

The Gray's Point Prize in Anatomy

V \$50.00

- C The best performance in Year 1 Anatomy (subject ANAT1006) by a student in course 3801 (BSc(Med)MBBS) or 3840 (BA BSc(Med)MBBS)

The Jane Skillen Prize in Anatomy

V \$250.00

- C 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

V \$100.00

- C The highest mark in Anatomy (including all sub-disciplines of anatomy) in Year 2 of course 3801 (BSc(Med)MBBS) or 3840 (BA BSc(Med)MBBS)

The Prize in Practical Anatomy

V \$100.00

- C The best performance in Practical Anatomy (including Radiological Anatomy) by a student in Year 2 of course 3801 (BSc(Med)MBBS) or 3840 (BA BSc(Med)MBBS)

The Winifred Dickes Rost Prize

V \$50.00

- C Outstanding merit in Anatomy in the final year of the Bachelor of Science degree course

School of Community Medicine

The 2/5 Australian General Hospital Association Prize

V \$150.00

- C The best performance in Community Medicine by a Year 5 student in course 3801 (BSc(Med)MBBS), or Year 6 student in 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Department of Health, Rural General Practice Prize

V \$500.00

- C The best essay written in the topic area of rural general practice by a student proceeding to the award of the degrees (BSc(Med)MBBS) or (BScMBBS) or (BA BSc(Med)MBBS)

The New South Wales Department of Health Prize

V \$500.00

- C The best performance in the Community Medicine component of subject MDSG4001 in course 3801 (BSc(Med)MBBS), or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Richard Kelman Prize

V \$100.00

- C Excellence in the Occupational Health component of subject MDSG4001 by a student in course 3801 (BSc(Med)MBBS), or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

School of Obstetrics and Gynaecology

The Gordon Lowe Memorial Prize

V \$150.00

- C The best performance in subject Obstetrics and Gynaecology (OBST5001) in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Royal Hospital for Women Senior Medical Staff Prize

V \$100.00

- C The best clinical performance in subject Obstetrics and Gynaecology (OBST5001) in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

School of Pathology

The G.R. Cameron Memorial Prize

V \$50.00

- C The highest aggregate mark in the pathology component of PATH3101 in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Macquarie Prize in Diagnostic Pathology

V \$500.00 and Medal

- C The best performance in the Diagnostic Pathology component of PATH3101 in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Sugerman Prize in Clinical Pathology**V** \$1000.00

- C** The best performance in a combination of PATH3101 (Pathology) and subject MDSG4001 (Integrated Clinical Studies and Community Studies) by a student in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Sugerman Prize in Experimental Pathology**V** \$1000.00

- C** The most proficient research done in basic or applied pathology by a student in course 3830 (BSc(Med)Hons)

School of Paediatrics**The Karitane Mothercraft Society Prize****V** \$150.00

- C** The best essay written in the topic area of 'Mother/child relationships relevant to health care' by a student proceeding to the degree of Bachelor of Science (Medicine), Bachelor of Medicine, Bachelor of Surgery (BSc(Med)MBBS) or the combined Science/Medicine degrees (BScMBBS) or the combined Arts/Medicine degree (BA BSc(Med)MBBS)

The Paediatrics Staff Prize**V** \$200.00

- C** An outstanding performance in subject Paediatrics (PAED5101) by a student enrolled in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

School of Physiology and Pharmacology**The D.N. Wade Prize For Medical Pharmacology****V** \$100.00

- C** The best performance in PHPH3055 (Medical Pharmacology) by a student in course 3801 (BSc(Med)MBBS), 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Doerenkamp-Zbinden Prize in**V** \$100.00 Pharmacology

- C** The highest aggregate for PHPH3152 (Pharmacology) in the Science Course

The F.C. Courtice Prize for Physiology 2**V** \$100.00

- C** The best performance in PHPH3114 (Physiology 2) in a Bachelor degree course

The F.C. Courtice Prize for Medical Physiology 1**V** \$100.00

- C** Best performance in PHPH2018 (Medical Physiology 1) in course 3801 (BSc(Med)MBBS) or 3840 (BA BSc(Med)MBBS)

The School of Physiology Staff Prize For Physiology 1 or Principles of Physiology**V** \$100.00

- C** The best performance in PHPH2112 (Physiology 1) or PHPH2122 (Principles of Physiology) in course 3821 (BScMBBS)

The School of Physiology and Pharmacology Staff Prize For Medical Biology**V** \$100.00

- C** The best performance in PHPH1004 (Biology for Medical students) in Year 1 of course 3801 (BSc(Med)MBBS) or 3840 (BA BSc(Med)MBBS)

The W.E. Glover Prize For Physiology**V** \$100.00

- C** The best performance in PHPH3014 (Medical Physiology 2) in course 3801 (BSc(Med)MBBS), 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

School of Psychiatry**The David Jeremy Keen Memorial Prize****V** \$50.00

- C** The best performance in PSCY2101 (Human Behaviour 2) in course 3801 (BSc(Med)MBBS), or 3840 (BA BSc(Med)MBBS) or PSCY2201 (Human Behaviour) in course 3821 (BSc MBBS).

The John Kerridge Memorial Prize**V** \$100.00

- C** The best performance in Psychiatry in the final year of the Bachelor of Medicine, Bachelor of Surgery degree course

School of Surgery

The Graduation Prize in Surgery

V \$100.00

- C** The best performance in the surgery component of MDSG4001 (Integrated Clinical and Community Studies) in course 3801 (BSc(Med)MBBS), 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Royal Australian College of Ophthalmologists Prize

V \$250.00 and Medal

- C** The best essay on an ophthalmological subject by a student in the fifth year of course 3801 (BSc(Med)MBBS), or the 6th year of courses 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

Graduate University Prizes

Faculty of Medicine

The Drug and Alcohol Foundation Prize

V \$250.00

- C** The best essay or article on Alcoholism and/or Drug Abuse

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The University of New South Wales, Kensington Campus

Theatres

Biomedical Theatres E27
 Central Lecture Block E19
 Chemistry Theatres (*Dwyer, Mellor, Murphy, Nyholm, Smith*) E12
 Classroom Block (*Western Grounds*) H3
 Fig Tree Theatre B14
 Io Myers Studio D9
 Keith Burrows Theatre J14
 Mathews Theatres D23
 Parade Theatre E3
 Physics Theatre (*Main Building*) K14
 Rex Vowels Theatre F17
 Science Theatre F13
 Sir John Clancy Auditorium C24

Buildings

Applied Science F10
 Barker Street Gatehouse N11
 Basser College (*Kensington*) C18
 Central Store B13
 Chancellery C22
 Dalton (*Chemistry*) F12
 Goldstein College (*Kensington*) D16
 Golf House A27
 Gymnasium B5
 International House C6
 John Goodsell (*Commerce and Economics*) F20
 Kensington Colleges (*Office*) C17
 Library (*University*) E21
 Link B6
 Maintenance Workshop B13
 Mathews F23
 Menzies Library E21
 Morven Brown (*Arts*) C20
 New College L6
 Newton J12
 NIDA D2
 Parking Station H25
 Philip Baxter College (*Kensington*) D14
 Robert Heffron (*Chemistry*) E12
 Sam Cracknell Pavilion H8
 Samuels Building F26
 Shalom College N9
 Sir Robert Webster G14
 Unisearch House L5
 University Regiment J2

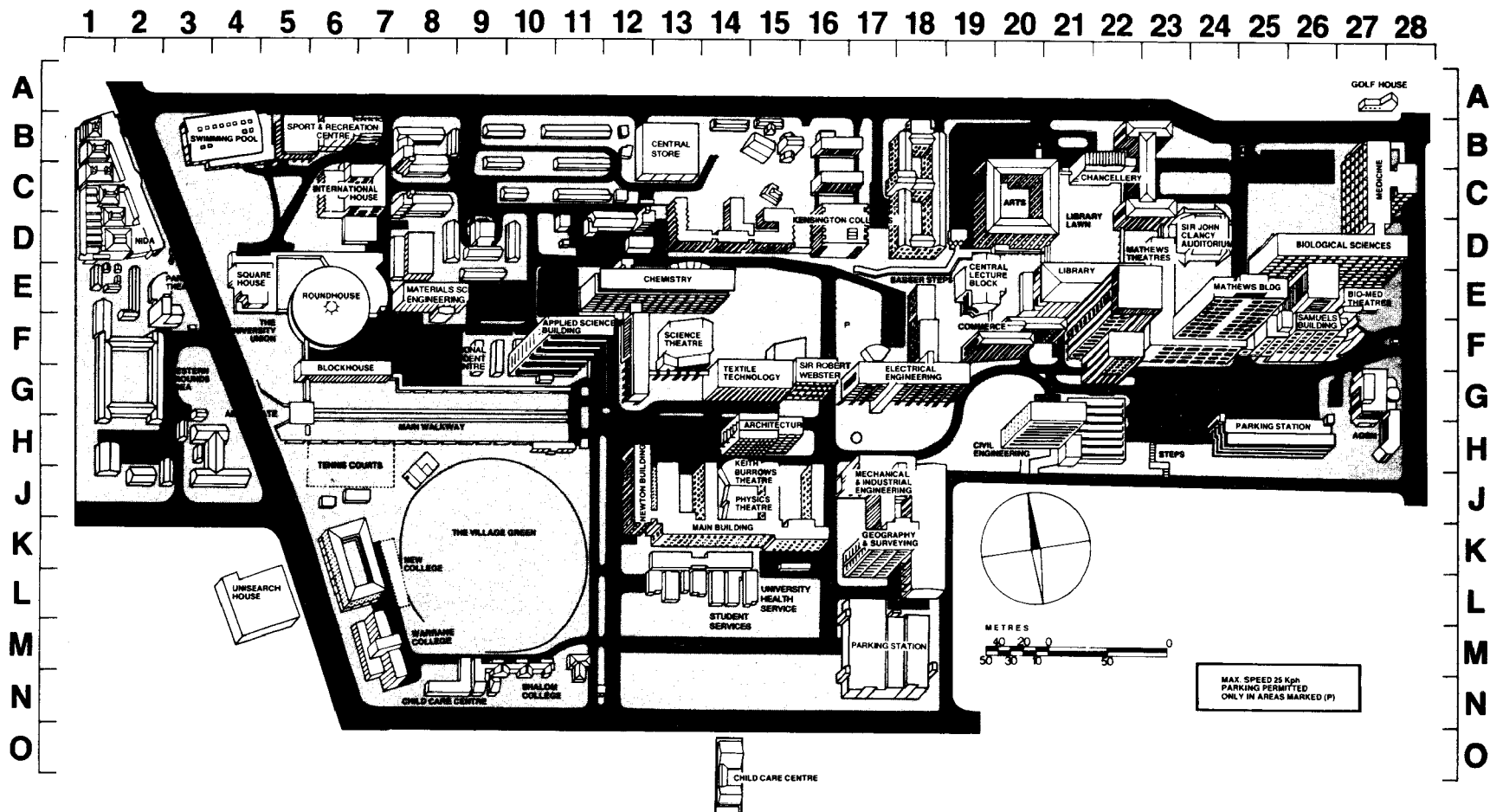
University Union (*Roundhouse*) E6
 University Union (*Blockhouse*) G6
 University Union (*Squarehouse*) E4
 Wallace Wurth School of Medicine C27
 Warrane College M7

General

Aboriginal Student Centre:
 47 Botany St, Randwick
 Accommodation (*off-campus*) F15
 Accounting F20
 Admissions C22
 Adviser for Prospective Students C22
 Anatomy C27
 Applied Bioscience D26
 Applied Economic Research G14
 Applied Geology F10
 Applied Science (*Faculty Office*) F10
 Architecture (*Faculty Office*) H14
 Archives, University E21
 Arts and Social Sciences (*Faculty Office*) C20
 Asia-Australia Institute:
 34 Botany St, Randwick
 Audio Visual Unit F20
 Australian Graduate School of Management G27
 Banking and Finance F20
 Biochemistry and Molecular Genetics D26
 Biological and Behavioural Sciences (*Faculty Office*) D26
 Biomedical Engineering F26
 Biomedical Library F23
 Biotechnology F26
 Cashier's Office C22
 Chaplains L12 & L13
 Chemical Engineering and Industrial Chemistry F10
 Chemistry E12
 Civil Engineering H20
 Co-op Bookshop G17
 Commerce and Economics (*Faculty Office*) F20
 Communications Law Centre C15
 Community Medicine D26
 Computer Science and Engineering G17
 Computing Services Department F26
 Cornea and Contact Lens Research Unit:
 22-32 King St, Randwick

Economics F20
 Education Studies G2
 Educational Testing Centre K14
 Electrical Engineering G17
 Energy Research, Development & Information Centre F10
 Engineering (*Faculty Office*) K17
 English C20
 Examinations C22
 Fees Office C22
 Fibre Science and Technology G14
 Food Science and Technology B8
 French C20
 Geography K17
 German and Russian Studies C20
 Graduate Office and Alumni Centre E4
 Graduate School of the Built Environment H14
 Groundwater Management and Hydrogeology F10
 Health Service, University L14b
 Health Services Management C22
 History C20
 House at Pooh Corner (*Child Care*) N8
 Industrial Design G15
 Industrial Relations and Organizational Behaviour F20
 Information Systems F20
 Institute of Languages:
 14 Francis St, Randwick
 International Student Centre F16
 IPACE Institute F23
 Japanese Economic and Management Studies F20
 Kanga's House (*Child Care*) O14
 Landscape Architecture K15
 Law (*Faculty Office*) F21
 Law Library F21
 Legal Studies & Taxation F20
 Liberal and General Studies C20
 Librarianship F23
 Lost Property C22
 Marine Science D26
 Marketing F20
 Materials Science and Engineering E8
 Mathematics F23
 Mechanical and Manufacturing Engineering J17
 Medical Education C27
 Medicine (*Faculty Office*) B27

Membrane and Separation Technology F10
 Microbiology and Immunology D26
 Mines K15
 Minor Works and Maintenance B14A
 Music B11
 News Service C22
 New South Wales University Press:
 22-32 King St, Randwick
 Optometry J12
 Pathology C27
 Patrol and Cleaning Services C22
 Performing Arts B10
 Petroleum Engineering D12
 Philosophy C20
 Physics K15
 Physiology and Pharmacology C27
 Political Science C20
 Printing Section C22
 Professional Development Centre K13
 Professional Studies (*Faculty Office*) G2
 Property and Works C22
 Psychology F23
 Publications Section C22
 Remote Sensing K17
 Safety Science:
 32 Botany Street, Randwick
 Science (*Faculty Office*) F23
 Science and Technology Studies C20
 Social Science and Policy C20
 Social Policy Research Centre F26
 Social Work G2
 Sociology C20
 Spanish and Latin American Studies C20
 Sport and Recreation Centre B6
 Squash Courts B7
 Staff Office C22
 Student Centre (*off Library Lawn*) C22
 Students' Union E4, C21
 Student Services:
 Careers, Loans, Accommodation etc L14
 Counselling L13
 Students' Union E4, C21
 Surveying K17
 Swimming Pool B4
 Textile Technology G14
 Theatre and Film Studies B10
 Town Planning K15
 WHO Regional Training Centre C27
 Wool and Animal Sciences G14



This Handbook has been specifically designed as a source of detailed reference information for first year and re-enrolling undergraduate and postgraduate students. Separate handbooks are published for Applied Science, Arts and Social Sciences, Commerce and Economics, Engineering, Law, Medicine, Professional Studies, Science, the Australian Graduate School of Management, College of Fine Arts, University College (Australian Defence Force Academy) and the Centre for Liberal and General Studies.

For fuller details about the University – its organization, staff members, description of disciplines, scholarships and prizes and so on, consult the *University Calendar (Summary Volume)*. For further information on student matters consult the *University Student Guide*.