

THE UNIVERSITY OF  
NEW SOUTH WALES



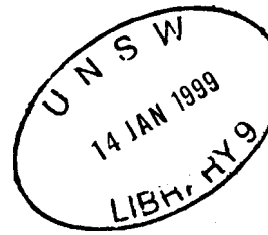
*Faculty of  
Medicine*

# HANDBOOK

1999



THE UNIVERSITY OF  
NEW SOUTH WALES



*Faculty of  
Medicine*

# HANDBOOK

# 1999

**Subjects, courses and any arrangements for courses including staff allocated as stated in this Handbook are an expression of intent only. The University reserves the right to discontinue or vary arrangements at any time without notice. Information has been brought up to date as at 10 December, 1998, but may be amended without notice by the University Council.**

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# Message to New Students from the Dean

It is my pleasure to welcome you to the Faculty of Medicine at the University of New South Wales. My colleagues from the Faculty and I are delighted that you have chosen to begin your professional career with us and we congratulate you upon gaining entry to the undergraduate medical course.

You are joining a University community which has depth and breadth in academic enterprise and social opportunity. The University of New South Wales is a robust institution with traditions of educational and investigative excellence coupled with the vitality of an energetic faculty and administration. I encourage you to explore fully the opportunities available to you as you enter our scholarly community. You are joining us at a time of unprecedented change in higher education and health care delivery. Despite considerable turmoil in the financing of both tertiary education and health care delivery throughout the world, the need for excellence in clinical education, biomedical research and teaching remains a clarion call for institutions of higher learning throughout the globe - a call to prevail in their quest to succeed in preparing the next generation of medical professionals. At the University of New South Wales, we look forward to working with you during your time with us as, together, we confront the challenges ahead and turn them into opportunities.

This Faculty takes pride in the values through which we operate::

- We build on the strong foundation laid over the decades since the founding of this Faculty.
- We strive to discover that which is true not simply what is most likely.
- We seek what is best not simply what is possible.
- We aim for durability not expediency.
- We will be worthy of the trust which society places in us to lead in education, research, clinical care and advocacy.

Your medical education will be a series of counterpoints – outward exhilaration and reflective contemplation, energy and fatigue, didactic learning and enquiry-driven self study. All these and many more experiences await you as you explore the space between the science and art of medicine. A talented faculty and dedicated administrative staff stand ready to assist you.

I bid you welcome again and look forward to the many crossings of our paths as you begin your journey with us at the University of New South Wales.

S Bruce Dowton  
Dean  
Faculty of Medicine





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# Calendar of Dates

The academic year is divided into two sessions, each containing 14 weeks for teaching. Between the two sessions there is a break of approximately six weeks, which includes a one-week study period, two weeks for examinations, and three weeks recess. There is also a short recess of one week within each session.

Session 1 commences on the Monday nearest 1 March.

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## Faculties other than Medicine, AGSM and University College, ADFA

	1999	2000
<b>Session 1</b>		
(14 weeks)	1 March to 1 April 12 April to 11 June	28 February to 20 April 1 May to 9 June
<b>Mid-session recess</b>	2 April to 11 April	21 April to 30 April
Study period	12 June to 17 June	10 June to 14 June
Examinations	18 June to 6 July	15 June to 29 June
<b>Mid-year recess</b>	7 July to 25 July	30 June to 16 July
<b>Session 2</b>		
(14 weeks)	26 July to 24 September 5 October to 5 November	17 July to 10 September 7 October to 17 November
<b>Mid-session recess</b>	25 September to 4 October	11 September to 6 October
Study period	6 November to 11 November	18 November to 22 November
Examinations	12 November to 30 November	23 November to 7 December

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## Faculty of Medicine

	1999	2000
<b>Medicine I, II, III</b>	As for other faculties	As for other faculties
<b>Medicine IV</b>		
<b>Term 1</b>		
<i>Campus Program 1</i>	11 January to 29 January	10 January to 28 January
<i>Hospital Program</i>	1 February to 14 March	31 January to 12 March

<b>Term 2</b>	15 March to 25 April	13 March to 23 April
<b>Recess</b>	26 April to 2 May	24 April to 30 April
<b>Term 3</b>	3 May to 13 June	1 May to 11 June
<b>Term 4</b>		
<i>Campus Program 2</i>	15 June to 28 June	13 June to 26 June
<i>Hospital Program</i>	29 June to 8 August	27 June to 6 August
<b>Recess</b>	9 August to 15 August	N/A
<b>Term 5</b>	16 August to 26 September	7 August to 17 September
<b>Olympics Break (2 wks)</b>	N/A	18 September to 1 October
<b>Term 6</b>	27 September to 7 November	20 October to 12 November

**Medicine V**

<b>Term 1</b>		
<i>Campus Program</i>	14 January to 15 January	6 January to 7 January
<i>Hospital Program</i>	18 January to 21 March	10 January to 12 March
<b>Term 2</b>	29 March to 30 May	20 March to 21 May
<b>Term 3</b>	7 June to 8 August	29 May to 30 July
<b>Term 4</b>	16 August - 17 October	7 August to 8 September
<b>Olympics Break (3 wks)</b>	N/A	9 September to 1 October
<b>Term 4 (cont'd)</b>	16 August - 17 October	2 October to 29 October

**Medicine VI**

<b>Term 1</b>	Elective - variable dates	Elective - variable dates
<b>Term 2</b>		
<i>Campus Program 1</i>	22 February to 26 February	7 February to 11 February
<i>Hospital Program</i>	1 March to 11 April	14 February to 24 March
<b>Recess</b>	12 April to 18 April	25 March to 2 April
<b>Term 3</b>	19 April to 30 May	3 April to 14 May
<b>Term 4</b>		
<i>Hospital Program</i>	31 May to 11 July	15 May to 25 June
<i>Campus Program 2</i>	12 July to 23 July	26 June to 7 July
<b>Recess</b>	24 July to 1 August	8 July to 16 July
<b>Term 5</b>	2 August - 12 September	17 July to 27 July
<b>Term 6</b>	13 September to 24 October	28 August to 8 September
<b>Olympics Break (3 wks)</b>	N/A	9 September to 1 October
<b>Term 6 (cont'd)</b>	16 August - 17 October	2 October to 29 October

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

**Dean**

Professor S Bruce Dowton

**Presiding Member**

Associate Professor David John de Carle

**Sub-Dean (Curriculum and Teaching)**

Professor Denis Wakefield

**Sub-Dean (Information Technology)**

Professor Peter Hosford Barry

**Associate Dean (Research)**

Vacant

**Office of the Dean****Executive Officer**

Jeffrey Warnock, BA(Hons) *Syd.*

**Administrative Officers**

Helen Cannella, BCom MCom *UNSW*

Gordon Lester Rees

Derek Raymond Wright

**Administrative Assistants**

Julie Anne Britt Heffernan

Clare O'Connor, BA *UNSW* RN

Moya Patricia Pedemont

**Computer Support Unit****Manager**

James Leaper, BA

Mirta Acosta

Luc Betbeder-Matibet, BA *UNSW*

Craig Howie, BA *CCAE*

Karen Johnson, BSc (Hons) *UNSW*

Sami Korell

*\*See end of the Medicine Staff List for key to symbols.*

---

## School of Anatomy

### Head of School

Professor DJ Tracey

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### Kensington Campus

#### Professor

David James Tracey, BSc *Syd.*, PhD *Stan.*

#### Associate Professors

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

✶David Antony Walsh, BSc PhD *Syd*

#### Senior Lecturers

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

Brian Warwick Freeman, BSc *Syd.*, PhD *UNSW*

✶Glenda Margaret Halliday, BSc PhD *UNSW*

Murray Stanley Smith, BSc PhD *Cant.*, MHPed *UNSW*

Stephen Richard Robinson, BSc *Adel.* PhD *UNSW*

Elizabeth Jane Tancred, BSc PhD *UNSW*

Dzung Huu Vu, MD *Saigon*, MB BS *UNSW*, DipAnat, ASANZ

#### Lecturers

✶Jennifer Harasty, BAppSc (SpPath) *Cumb*; MAppSc PhD *Syd.*

✶Antony Jon Harding, BSc *Adel.*, PhD *Syd.*

✶Jasmine Monica Henderson, BSc DipNutDiet PhD *Syd*

Mark Anthony Hill, BSc PhD *Syd.*

✶Enn Tohver, MB BS *DDR Syd.*, FRACP

#### Associate Lecturer

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

#### Professional Officers

Patrick John de Permentier, BSc MSc *UNSW*

Paul Halasz, MSc *Bud.*

#### Senior Technical Officer

Collin Boon-Chye Yeo, *AAIST*

#### Manager, Dissecting Room

Adrian Cajetan Jude D'Mello, MB BS MS *DNB India*

#### Technical Officers

Jennifer Flux

John Andrew Hughes

#### Honorary Visiting Professor

Marshall Edwards, BVSc PhD DVSc *Syd.*, MVSc *L'pool.*, MRCVS, MACVSc

#### Honorary Visiting Fellows

Saw Kin Loo, MB BS *Malay*, PhD *S'pore*.

### Administrative Assistant

Lorraine Brooks

---

## Clinical School – Prince Henry/Prince of Wales Hospitals

### Clinical Associate Dean

Professor JM Ham

### Warden of Clinical Studies

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

### Administrative Officer

Jennifer Marie Ryall

---

## Department of Medicine

### Head of Department

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

### Professors

✶George Dennis Calvert, BMedSc, MBChB, MD *Otago*, FRACP, FRCPA, FRCPPath

✶Colin Nicholson Chesterman, MB BS *Syd.*, DPhil *Oxf.*, FRACP, FRCPA

✶Beng Hock Chong, MB BS *Malaysia*, PhD *Syd.*, FRACP, FRCPA

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

✶Simon Charles Gandevia, BSc(Med) MD PhD DSc *UNSW*, FRACP FAA

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

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✶David James Burke, MB BS *Syd.*, MD DSc *UNSW*, FRACP FAA FTSE

### Associate Professors

Terry Dorcen Bolin, MB BS *Syd.*, MD *UNSW*, DCH *Lond.*, FRCP, FRACP, FRCPed

✶John Alfred Charlesworth, MB BS *UNSW*, MD *Syd.*, FRACP

✶Stephen Colagiuri, MB BS *Syd.*, FRACP

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✶Norelle Lickiss, BSc(Med) MB BS MD *Syd.*, FRCP, FRACP

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



+\*Dwain Alan Owensby, BSc *Yale*, PhD *A.N.U.*, MD *Miami*, FRACP  
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 +Bernard Edward Tuch, MB BS *Qld.*, BSc PhD *Syd.*, FRACP  
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#### Senior Lecturers

+Roger Maxwell Allan, MB BS *UNSW*, FRACP  
 +\*James Bell, BA MB BS *Syd.*, FRACP, AMPSAD  
 +Gregory Brett Cranny, MB BS *UNSW*, FRACP  
 +Nicholas Peter Burberry Dudman, MSc *Auck.*, PhD *Qld.*  
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 +\*Julian Gold, MB BS *Syd.*, FAFPHM(RACP), DipE&MS *Lond.*  
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 +Malcolm Reynolds Robertson, MB BS *Syd.*, FRACP  
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 +Warren Frederick Walsh, MB BS *Syd.*, FRACP, FACC

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 +\*Gideon Avram Caplan, MB BS *Syd.*, FRACP  
 +Daniel Kam Yin Chan, MB BS *UNSW*, FRACP  
 +Richard Wai Meng Chye, MB BS *Syd.*, FRACP  
 +\*Clare Alice Cunningham, OAM, MB BS *Syd.*, MRCP *UK*, DCH  
 +Virginia Furner, MB BS *UNSW*  
 +\*Peter Neil Gonski, BMedSc MB BS *UNSW*, FRACP  
 +Walter Hainall  
 +Craig Ronald Lewis, MB BS *UNSW*, FRACP  
 +Ilona Mogyros, MD *Semmelweis*, PhD *UNSW*  
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 +Mark Roderick Pitney, MB BS *Syd.*, FRACP, MSCAI, MSCANZ

+\*Tuly Rosenfeld, MB BS *Syd.*, FRACP  
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 +Bruce Gary Way, BMedSc MB BS *UNSW*, FACEM  
 +Yvonne Zissiadis, MB BS *WA*, FRACP

#### Professional Officers

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 Helen Margaret Theile, BSc *Qld.*, MSc *UNSW*

#### Technical Officers

George Mallos  
 Dolly Moham

#### Honorary Visiting Professors

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 MRCP *Lond.*, FRACP, FRCP  
 David Emil Leon Wilcken, MD *Syd.*, FRCPS, FRACP

#### Administrative Officer

Vacant

### Department of Surgery

#### Head of Department and Professor

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

#### Professor of Ophthalmology

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

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

Vacant

#### Associate Professors

+Richard John Millard, MB BS *Lond.*, FRCS *Lond.*, FRACS  
 +Margaret Anne Rose, BVSc *Syd.*, PhD *UNSW*  
 +David Harry Sonnabend, MB BS *Syd.*, FRACS

#### Senior Lecturers

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 Graham Leonard Newstead, MB BS *Syd.*, FRCS, FRACS, FACS  
 +Philip Gregory Truskett, MB BS *Syd.*, FRACS  
 William Robert Walsh, BA *Bucknell*, PhD *New Jersey*  
 Bryan Wheaton Yeo, MB BS *Syd.*, FRCS, FRACS

#### Lecturer

BMichael Peter Hennessy, BMedSc MB BS *Qld.*, MBIomedE *UNSW*, FRACO

#### Professional Officer

Stephen Peter Collins, BSc *Syd.*, MAppSc *N.S.W.I.T.*, PhD *A.N.U.*

**Technical Officer**

David Wesley Tuck

**Administrative Assistants**

Renee Claire Hannan

Olive Yanelli

**Department of Anaesthetics, Emergency Medicine and Intensive Care****Head of Department and Professor**

+Thomas Andrew Gabriel Torda, MB BS *Syd.*, MD *UNSW*, DA *Lond.*, DipABA, FFARCS, FFARACS, FANZCA, FFICANZCA

**Lecturers**

+Kenneth Abraham, MB BS *Syd.*, FACEM, EMST  
 +Michael George Beaudoin, MB BS *Syd.*, FFARACS  
 +Andrew Belessis, MB BS *UNSW*, FANZCA  
 +Stephen Gatt, MD *Malta* FRCP FANZCA, AOM  
 +Michael Heywood Bennett, MB BS *UNSW*, DA *Lond.*, FFARCSI *Dublin*  
 +Peter Ralph Isert, MB BS *UNSW*, FFARACS  
 +Edward Loughman, MB BS *UNSW*, FFARACS  
 +Zarir Nanavati, MB BS *UNSW*, FRACP, FANZCA, FFICANZCA  
 +Yahya Shehabi, MD *Jordan* FANZCA FFICANZCA  
 +Barbara Elise Trytko, BM BS *Flind* FFICANZCA  
 +Su-Jen Yap, MB BS *Syd.*, FANZCA

**Clinical School – St George Hospital****Clinical Associate Dean**

Associate Professor DJ de Carle

**Administrative Officer**Justin Peter Joynes AdvCert(Public Admin) *SIT***Department of Medicine****Head of Department**David John de Carle, MB BS *UNSW*, FRACP**Professors**

+John Patrick Edmonds, MB BS *Syd.*, FRACP  
 +\*Laurence Guy Howes, MB BS PhD *Melb.*, FRACP  
 +\*John Henry Kearsley, MB BS *Syd.*, PhD *Qld.*, FRACP, FRACP  
 +Steven Anthony Kriks, MB BS *UNSW*, PhD *Syd.*, FRACP  
 Judith Ann Whitworth, DSc MB BS MD PhD *Melb.*, FRACP (on secondment)

**Associate Professors**

+Mark Ashley Brown, MB BS MD *UNSW*, FRACP  
 +Ian James Cook, MB BS MD *Syd.*, FRACP  
 David John de Carle, MB BS *UNSW*, FRACP

**Senior Lecturers**

+Michael Carl Grimm, MB BS (Hons) *Syd.*, PhD *ANU* FRACP  
 +John James Kelly, MB BS MD *UNSW*, FRACP  
 +Bruce Willfred Kirkham, BA MD ChB *Otago*, MRCP, FRACP  
 +\*Yiu Lam Kwan, MB BS *H.K.*, FRACP, FRCPA  
 +Richard Hamilton Lawrence, MB BS PhD *Syd.*, FRACP  
 +\*Jeremy McAnulty, MB BS MPH *Syd.*, FAFPHM  
 Anthony John O'Sullivan, MB BS MD *UNSW*, FRACP  
 +Allan David Sturgess, MB BS *Qld.*, PhD *Melb.*, FRACP, FRCPA

**Lecturers**

+Timothy Andrew Brighton, MB BS *UNSW*, FRACP  
 +Sidney Patrick Butler, BSc(Med) MB BS MA *UNSW*, FRACP  
 +Peter Cistulli, MB BS *UNSW* PhD *Syd.*, FRACP  
 +Raymond Allan Clarke, BSc PhD *UNSW*  
 +Paul Linus De Souza, BScMed MB BS *Syd.*, FRACP  
 +\*David John Gorman, BSc MB BS *Syd.*, FRACP  
 +Mark Hersch, BScMed MB ChB *W'rand.*, PhD *Syd.*, FRACP  
 George Mangos, MB BS *UNSW*, FRACP  
 +Deirdre Frances Murrell, BM BCh *Oxf.*, FAD, MA *Camb.*  
 +Richard James Quinn, MB BS *UNSW*, FRACP, DDU  
 +David Ronald Ramsay, MB BS *Syd.*, FRACP

**Technical Officer**Steven Turner, BAppSc *C.S.U.*, BSc *UNSW***Administrative Officer**Judith Blackburn, *RN***Department of Surgery****Head of Department**David Lawson Morris, MB ChB MD *Birm.*, PhD *Nott.*, FRCS, FRACS**Professors**

+\*John Henry Kearsley, MB BS *Syd.*, PhD *Qld.*, FRACP, FRACP  
 David Lawson Morris, MB ChB MD *Birm.*, PhD *Nott.*, FRCS, FRACS  
 Michael Drury Poole, MB BS MD *Syd.*, FRCS, FRACS

**Associate Professors**

+William James Cumming, MB BS *Syd.*, FRACS  
 +George Anthony Calvert Murrell, MB BS *Adel.*, DPhil *Oxf.*

**Senior Lecturer**

Peter Macdonald Hewitt, BMedSc MBChB *Pret*, FRCS (SA)

**Lecturers**

☉Elaine Bolton, BSc *N.E.S.C.O.T.*, PhD *Syd.*  
 Ashish Dhar Diwan, MB BS MS(Orth) DNB(Orth) *India*  
 +Christopher Henry Fox, MBChB *Otago*, FRACR  
 +Derek William Glenn, MB BS *Syd.*, FRACR  
 +Peter Henry Graham, MB BS *UNSW*, FRACR  
 +Michael Lannan, MB BS *UNSW*  
 +Ian Stafford Lovett, MB BS *Syd.*, MRCP, FRACR  
 +Amanda Palmer, MB BS *UNSW*  
 +John Swee Soon Lim, MBBS *UNSW* DRACR  
 +Julie Denise Stevenson, MB BS *Syd.*, FRACR

**Technical Officer**

Javed Akhter

**Administrative Officers**

Ceri Walker  
 Jenny Fleming

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## Department of Anaesthetics, Emergency Medicine and Intensive Care

**Head of Department and Professor**

+David Brunton Gibb, BSc(Med) MB BS *Syd.*, DOBstRCOG *Lond.*, FRCAnaes, FANZCA

**Associate Professor**

+David Julian Bihari, MA *Camb.*, MB BS *Lond.*, FRCP *Lond.*, MRCP *Lond.*

**Senior Lecturer**

+George Andrew Skowronski, MB BS *Monash*, MRCP *U.K.*, FRACP

**Lecturers**

+Andrew Stephen Armstrong, MB BS *UNSW*, FANZCA  
 +Margaret Ruth Bailey, MB BS *Flin.* FANZCA  
 +Paul Bertolino, BMed *N'cle.(N.S.W.)*, FANZCA  
 +Neil Thomas Bradburn MB BS *UNSW*, FFARACS, FANZCA  
 +Adam Chan MB BS *UNSW*, FACEM  
 +Peter James Grant, BSc MB BS *UNSW*, FACEM  
 +Anna Holgate, MB BS *Syd.*, FACEM  
 +Theresa Jacques, MB BS *Monash*, FANZCA  
 +Ronald John Manning, MB BS, BMedSc *UNSW*, FACEM  
 +Andrew Mather, MB BS *Syd.*, FACEM  
 +John Robert Raftos, MB BS *Syd.*, FACEM  
 +Gary David Tall, MB BS *Syd.*, FACEM

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## Clinical School – St Vincent's Hospital

**Clinical Associate Dean**

Professor RSA Lord

**Administrative Assistant**

Monica Mary Adams, DipPhysTher *Syd.*

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## Department of Medicine

**Head of Department**

+\*Terence John Campbell, BSc(Med) MB BS, *UNSW*, DPhil *Oxf.*, FRACP

**Professors**

+\*Terence John Campbell, BSc(Med) MB BS, *UNSW*, DPhil *Oxf.*, FRACP  
 +Donald John Chisholm, MB BS *Syd.*, FRACP  
 +David Albert Cooper, BSc(Med) MB BS *Syd.*, MD DSc *UNSW*, FRACP, FRCPA  
 \*Richard Osborne Day, MB BS *Syd.*, MD *UNSW*, FRACP  
 +John Allan Eisman, AO, BSc(Med) MB BS *Syd.*, PhD *Melb.*, FRACP  
 +Robert Graham, MB BS MD *UNSW*, FRACP, FACP  
 +Ken Kian Ho, MB BS *Syd.*, MD *UNSW*, FRACP  
 \*+David Dang Fung Ma, MB BS MD *UNSW* FRCPA  
 FRACP  
 Michael Francis O'Rourke, AM, MB BS MD DSc *Syd.*, FRACP, FACC  
 +John Shine, BSc PhD *A.N.U.*, FAA  
 ☉Keith Kendall Stanley, BA MA PhD *Cantab.*  
 +Robert Lyndsay Sutherland, MAgSc *Cant.*, PhD *A.N.U.*

**Professor of Clinical Immunology**

Ronald Penny, AO, MB BS MD *Syd.*, DSc *UNSW*, FRACP, FRCPA

**Associate Professors**

+James Crawford Biggs, MB BS *Syd.*, DPhil *Oxf.*, FRACP, FRCPA  
 +Bruce James Brew, MB BS *Syd.*, FRACP  
 +David Hamilton Bryant, MB BS MD *Syd.*, FRACP  
 +Lesley Veronica Campbell, MB BS *Syd.*, MD *Wash.*, MD *UNSW*, FRACP, MRCP  
 +Bruce David Doust, BSc(Med) MB BS *Syd.*, FRACR, DDR, DDU, DABR, DABNM  
 +Michael Feneley, MB BS MD *UNSW*, FRACP  
 +John Joseph Grygiel, BPharm MB BS *Syd.*, MD *Flin.*, FRACP  
 +Anne Margaret Keogh, MB BS MD *UNSW*, FRACP  
 +Steven Kossard, BSc MB BS PhD *Syd.*, FACC  
 +Edward William Kraegen, BSc PhD *UNSW* MACPSM  
 +Andrea Mant, MB BS *Syd.*, MD *UNSW* MA *A.N.U.* FRACGP  
 +David William Marshall Muller, MB BS MD *Melb.*, FRACP, FACC

+Nicholas Antony Pocock, MB BS *Syd.*, MD *UNSW*, FRACP

•Peter Robert Schofield, BScAg *Syd.*, PhD *A.N.U.*  
William Arthur Sewell, MB BS BSc *Syd.*, PhD *Melb.*, FRCPA

Leon Abraham Simons, BSc(Med) MB BS MD *Syd.*, FRCP, FRACP

+Robin Charles Stuart-Harris, MB BS MD *Lond.*, FRACP, FACP

•Richard Thomas, PhD MSc *Syd.*, FPS

•Kenneth Williams, BSc (Hons) PhD *UNSW*

### Senior Lecturers

+Samuel Breit, MB BS MD *UNSW*, FRACP, FRCPA

+Andrew David Carr, MB BS MD *UNSW*

+\*Russell Donald Clark, MB BS DipTM&H *Syd.*, FRACP

•Gregory John Cooney, BSc(Hons) PhD *Syd.*

+\*Anne Marie Cunningham, MB BS PhD *Syd.*, FRACP

•Roger John Daly, BSc PhD *Liv.*

+\*Anthony John Dodds, MB BS *Syd.*, FRACP, FRCPA

+Peter Jan Duval, MB BS *Syd.*, FRACP, FRCP

•Edith Gardiner BSc *Duke* PhD *Yale*

•Peter William French, BSc MSc *Syd.*, PhD *Deakin*

+Judith Freund, MB BS *Syd.*, MRCP, FRACP

Donald John Frommer, BSc MB BS MD *Lond.*, FRCP, FRACP

+Allan Robert Glanville, MB BS MD *Syd.*, FRACP

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

•Herbert Herzog, Mag., Dr., *Priv. Doz*

+Dennis Lawrence Kuchar, MB BS MD *Syd.*, FRACP, FACC

•Elizabeth Anne Musgrove, BSc PhD *UNSW*

+\*Don Edward Smith, MB ChB MD *Otago*

•Lun-Quan Sun, PhD *ANU*, PhD MSc *FMU*, BSc *Anhui*

+\*Geoffrey Philip Symonds, BSc MSc *Syd.*, PhD *Weizmann Inst. of Sci.*

+\*Robyn Lynne Ward, MB BS PhD *UNSW*, FRACP

•Colin Kenneth William Watts, BSc *Otago*, PhD *Syd.*

+\*Alexander David Wodak, MB BS *Syd.*, FRACP  
MRCP

### Lecturers

+\*Neil John Cooney, MB BS *Syd.*, FRACP

+Stephen Gregory Cooper, MB BS *Syd.*, FRACP

•Malcolm Handel, BSc *Syd.*, MB BS PhD *UNSW*, FRACP

+Mark Hicks, BA BSc PhD *Macq.*

•Russell Ian Ludowyke, BSc(Hons) *LaTrobe*, PhD *CNA*

•Tiina Lismaa, BSc (Hons) PhD *Syd.*

•Michelle Miller, BSc MS *WA*, PhD *Syd.*

+\*Samuel Thomas Milliken, MB BS *Syd.*, FRACP

+Paul Thomas Preisz, MB BS *Syd.*, FACEM

### Honorary Visiting Professor

John Shaw, MB BS PhD *Syd.*, MRACP, FRACP

### Administrative Assistant

Elsa Christine Booth

## Department of Surgery

### Head of Department and Professor

Reginald Sidney Albert Lord, MB BS MD *Syd.*, FRCS, FRACS

### Associate Professor

+William Bruce Conolly, AO, MB BS *Syd.*, FRCS, FRACS, FACS

### Lecturers

•Tiina Lismaa PhD *Syd.*, BSc *Syd.*

+Richard Priestly Lee, MB BS *UNSW*, FFARACS

+Graeme William Morgan, BPharm MB BS *Syd.*, MRCP, FRACP

Hakan Parsson, MD PhD *Sweden*

## Department of Anaesthetics, Emergency Medicine and Intensive Care

### Head of Department and Professor

+Gordon Alfred Harrison, MB BS *Syd.*, MHPed *UNSW*, FFARACS, FANZCA, FFICANZCA

### Senior Lecturers

+Ronald Ernest Benson, MB BS *Syd.*, FRACP, FANZCA, FFICANZCA

+Gordian Ward Oskar Fulde, MB BS *Syd.*, FRCS, FRCSEd., FRACS, FRCS(A&E)Ed, FACEM

+Brian Francis Horan, MB BS *Syd.*, FFARCS, FANZCA

### Lecturers

+Judith Mary Branch, MB BS *Syd.*, FANZCA

+Martin Thomas Duffy, MB BS *UNSW*, FACEM

+John Robert Raftos, MB BS (Hons) *Syd.*, FACEM

+Michael James King, MB BS *Syd.*, FANZCA

+Jane Marie McKenzie, MB BS BSc *Melb.*, FANZCA

+Gregory Francis O'Sullivan, MB BS *UNSW*, FANZCA

+Paul Thomas Preisz, MB BS *Syd.*, FACEM

## Clinical School – South Western Sydney Area Health Service

### Clinical Associate Dean

\*Professor IW Webster, AO

### Administrative Officer

Mary-Louise Desmond, BEc *Syd.*



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## Department of Medicine

### Head of Department and Professor

Bruce Milne Hall, MB BS PhD *Syd.*, FRACP

### Associate Professors

+Karen Annette Duggan, BSc MB BS *Syd.*, MD *UNSW*, FRACP

+Stephen Lillioja, MB ChB *Otago*, FRACP

### Senior Lecturers

+Martin Berry, MB BS *Syd.*, FRACR, LMCC, FRCP(C)

+John Ming Gee Chu, BSc(Med) MB BS *Syd.*, MRCP UK

+Alison Fiona Colley, MB BS *UNSW*, FRACP

+Archibald Barclay Hamish Crawford, MB ChB *Glas.*, FRACP

+Jeffrey Ronald Flack, MB BS *Syd.*, FRACP

+\*Michael Peter Harvey, MB BS *Syd.*, FRACP, FRCPA  
Suzanne Jean Hodgkinson, MB BS *UNSW*, PhD *Syd.*, FRACP

+Kien-Seng Lee, MB BS *Syd.*, FRACP

+\*Guy Barrington Marks, BMedSc MB BS *UNSW*, PhD *Syd.*, MRCP, FRACP

+Alan John McDougall, BMedSc MB BS *Syd.*, FRACP

+John William Quin, BSc *Syd.*, MB BS *UNSW*, PhD *A.N.U.*, FRACP, FRCPA

+\*David Rosenfeld, MB BS *Syd.*, FRACP, FRCPA

+Michael Suranyi, MB BS PhD *Syd.*, FRACP

### Lecturers

+Catherine Bones-Saunders, MB BS *Syd.*, DDU *ASUM*, FRACP

+Mark Hanley Brennan, MB BS *Syd.*

+Dennis John Cordato, MB BS *Syd.*, FRACP

+Geoffrey Paul Delaney, MB BS *UNSW*

+Stephen Anthony Della-Fiorentina, MB BS *Syd.*, FRCP

+Hugh Dixon, MBA *INSEAD*, FRACP

+Adam Ross Fowler, MB BS *Qld.*, FRACP

+Amanda Jane Goldrick, MB BS *Syd.*, FRACP

+Ian Gotis-Graham, MB BS *Syd.*, FRACP

+Andrew Paul Hopkins, MB BS *Syd.*, FRACP, DDU

+Craig Phillip Juergens, MB BS *UNSW*, FRACP

+Peter William Kelleher, MB BS *Syd.*, FRACP, MAGS, MCSANZ

+Andrew Bailey Kneebone, MB BS *UNSW*

+May-Wan Lee, MB BS *Syd.*, DDU *ASUM*, DRACR

+Dominic Yiu-Cheong Leung, MB BS *H.K.*, MRCP(UK), FRACP

+Eugene Joseph Moylan, MB BS *Syd.*

+\*Roger John Renton, MB BS *Syd.*, DPRM, FRCRM, FAFRM

+John Mark Worthington, MB BS BMedSc *Syd.*, FRACP, FACCP

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## Department of Surgery

### Head of Department and Professor

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

### Associate Professor

+Michael Sugrue, MB BCh *Galway*, BAO, FRCSI, FRACS

### Senior Lecturer

+Kenneth Merten, MB BS *Syd.*, FRCSEd, FRACS

### Lecturers

☉Saad Al-Mahaidi, MB ChB *Baghdad*, FRACS

John Anthony Crozier, MB BS *Syd.*, FRACS

+Ian Andrew Harris, MB BS *Syd.*, FRACS, AAOA

☉Khaqan Janjua, MB BS *Preshwar*, MMedSci *Birm.*, FRCS, FICS

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## Department of Anaesthetics, Emergency Medicine and Intensive Care

### Head of Department and Professor

Kenneth Mark Hillman, MB BS *Syd.*, FRCA(Eng), FFICANZCA

### Senior Lecturer

+Kok Pheng Hui, BMedSc MB BS *Nott.*, MD *Eng.*, MRCP, *Ireland*, FRACP

### Lecturers

+Kevin Charles Baker, BE MB BS *Syd.*, FRACGP, FANZCA

+Klas Bennegaard, MB ChB PhD *Gothenberg*

+Gillian Frances Bishop, MB ChB *Otago*, FANZCA, FFICANZCA

+David Keith Crooke, MB BS BA *W.A.*, MBiomedE *UNSW*, FANZCA

+Linda Margaret Dann, MB BS *W.A.*, FACEM, FANZCA

+Mary Louise Done, MB BS *Syd.*, GradDipQMHC *LaTrobe*, FANZCA

+Arthas Flabouris, MB BS *Adel.*, FANZCA, FFICANZCA

+Alan Giles, MB BS *UNSW*, FACEM

+Peter Hammer, MB BS, *Melb.*, DA *Lond.*, FRCA *Lond.*, FANZCA

+Edmund Theodor Diedrich Hasche, MB BS *Hamburg*, FRACP

+Susan Leraci, MB BS *Syd.*, FACEM

+Martin Elvis Lum, MB ChB *Otago*, FANZCA

+Jennifer Anne Martin, MB BS (Hons) *UNSW*, FACEM, DCH

+Sally McCarthy, MB BS *Syd.*, FACEM

+Adam Purdon, BSc MB BS *UNSW*, FANZCA

+Yung Tran, BM BS *Flin.*, FRCA *Eng.*, FANZCA, FFICANZCA

+John Charles Sammut, MB BS *Syd.*, BSc(Psych) *UNSW*, FACEM

+Tracey Maree Tay, MB BS *New UK.*, FANZCA

+Susan Kay Winter, MB BS *Tas.*, FANZCA

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## School of Community Medicine

### Head of School

Professor PE Baume, AO

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### Kensington Campus

#### Professor of Community Medicine

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

#### Professor of Epidemiology

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

#### Associate Professors

Paul Murray McNeill, MA *Cant.*, LLB *Otago*, PhD *UNSW*  
 \*Robyn Lesley Richmond, MA *Syd.*, PhD *UNSW*

#### Senior Lecturers

Deborah Ann Black, BSc DipED Mstat PhD *UNSW*  
 Susan Irvine, MB ChB *Auck.*, MPH MSc *Harvard*, FAFPHM  
 David Sutherland, MB BS *Syd.*, DCH, FRACGP

#### Lecturers

Susan Joan Beecher, BA *Macq.*, BSocStud *Syd.*, MSW *UNSW*  
 Catherine Anne Berglund, BSc *Syd.*, PhD *UNSW*  
 Elizabeth Comino, BVSc BScVet *Qld.*, MPH PhD *Syd.*  
 Margaret Cunningham, BSW MSW GDipSocCom *UNSW*  
 John Frith, BScMed MB BS MCH *UNSW*, GradDipEd *Syd.C.A.E.*  
 Norman John Kelk, BA BSW *Qld.*, PhD *UNSW*  
 Constance Dimity Pond, BA DipEd MBBS *Syd.*, DipSocSc *N.E.*, FRACGP  
 Roslyn Poulos, MB BS (Hons) MPH *Syd*

#### Honorary Visiting Fellows

Roy Gary Beran, MB BS MD *UNSW*, FRACP, FRACGP, GradDipTertEd *N.E.*, FAFPHM  
 John Cawte, MB BS MD *Adel.*, DPM PhD *UNSW*  
 Peter Clyne, MB BS *Syd.*, FRACGP  
 Ann Cripps, MB BS *Syd.*, FAFPHM  
 John Hans Hirshman, AM MB BS DPH DTM&H *Syd.*, FRACMA  
 Sylvia Jacobson, MB BCH *Sth Afr.*  
 Colin Paul Mendelsohn, MB BS *Syd.*  
 Judith Beverly Norfor, BA *UNSW*  
 Peter MacDonald Trebilco, BA *Syd.*  
 Julie McDonald, BA *Macq.*, MPH *Syd.*, RN  
 Nanette Stacy Waddy, MBE MB BS *Syd.*, FRANZCP

#### Administrative Officer

Gallia Anne Therin, ANZIMLT

---

## Prince Henry/Prince of Wales Hospital

### Associate Professors

+Richard Frederick Jones, MB BS *Syd.*, DPRM, FRCS, FRCSEd, FRACS, FRACP  
 +\*Norelle Lickiss, BSc(Med), MB BS MD *Syd.*, FRCP, FRACP

### Senior Lecturers

+\*James Bell, BA MB BS *Syd.*, FRACP, AMPSAD  
 +\*Brian Michael Draper, MB BS *UNSW*, FRANZCP

### Lecturers

+\* Gideon Avram Caplan, MB BS *Syd.*, FRACP  
 +Daniel Kam Yin Chan, MB BS *UNSW* FRACP  
 +Stella Engel, MB BS *UNSW*, DPRM, FACRM  
 +Lorraine Ellen Jones, MB BS *Qld.*, FRACGP, FACRM, MHP  
 +Peshotan Homi Katrak, MB BS MD *Bom.*, FACRM  
 +\*Stephen Ronald Lord, BSc MA *Syd.*, PhD *UNSW*  
 +\*Tuly Rosenfeld, MB BS *Syd.*, FRACP  
 +John Alan Ward, MB BS *Qld.*, MSc *Lond.*

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## St George/Sutherland Hospital

### Professor of Rehabilitation, Aged and Extended Care

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

### Senior Lecturers

+\*Jeremy McNulty, MBBS MPH *Syd.*, FAFPHM  
 +George Meredith Stathers, MB BS *Syd.*, FRACP

### Lecturers

+Gregory Thomas Bowring, BSc(Med) MB BS *UNSW*, FACRM  
 +\*David James Burke, BMed *N'cle.(N.S.W.)* FRANZCP  
 +Christopher Carmody, MB BS *Monash* FACVEN  
 +\*Philip Conroy, MB BS MBA *UNSW*, FACRM, RACP  
 +Peter Neil Gonski, BMedSc MB BS *UNSW*, FRACP  
 +\*David John Gorman, BSc MB BS *Syd.*, FRACP  
 +Scott Allisdair Hannan, BMedSc MB BS *Tas.*, FAFRM(RACP), FACRM  
 +Robert Peter Leitner, MB BS *Syd.*, FRACP  
 +Litsa Morfis, MB BS *Syd* FRACP  
 +Lucia Victor Rodrigues, MD *Brazil*, FANZCA, FFARCS, FFARACS  
 +Merennege Raja Indrajith Salgado, MB BS MD *Ceylon*, MRCP  
 +Peter Ivan Smerdely, MB BS MPH *UNSW*, PHD *Syd.*, FRACP

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## St Vincent's Hospital

### Associate Professor

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

### Senior Lecturers

+\*Russell Donald Clark, MB BS DipTM&H *Syd.*, FRACP

+\*Don Edward Smith, MB ChB MD *Otago*

+\*Alexander David Wodak, MB BS *Syd.*, FRACP, MRCP

### Lecturers

+Nicholas Brennan, MB BS(Hons) *Monash*, FRACP

+\*Neil John Cooney, MB BS *Syd.*, FRACP

+\*Denise Fagan, BSc *Glas.*, PhD *Edin.*, ASHM

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## South Western Sydney Area Health Service

### Professor of Public Health

Professor Ian William Webster, AO, MB BS MD *Melb.*, FRACP, FRACGP, FRACMA, FACRM, FAFPHM

### Professor of General Practice

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

### Professors

+Hugh Grant Dickson, MB BS *Qld.*, FACRM

Adrian Bauman, MB BS MPH PhD *Syd.*, FAFPHM

### Senior Lecturers

+\*Victor Nossar, MB BS *UNSW*, FRACP, FAFPHM

+\*Guy Barrington Marks, BMedSc MB BS *UNSW*, PhD *Syd.*, MRCP, FRACP

+Sidney Ernest Williams, MB BS *Syd.*, FRANZCP

### Lecturers

+David Basic, MB BS *UNSW*, FRACP, MPH *Syd.*

Sameer Bhole, BDS *Bom.*, MDS *Syd.*, MRACDS, FRSH

+Kerry Gai Chant, MB BS MHA MPH *UNSW*, FFPHM

+Terence Choy, MB BS *Syd.*, MRACP, FRACP

+Colin Francis Clowes, MB BS *UNSW*, FRACP

+Andrew Malcolm Dermot Cole, BSc MB BS *Syd.*, FACRM

+Edward Kevin Cullen, BSc MB BS *Syd.*, MRCP, FACRM

+Robert Ralph Fisher, MB BS *UNSW*, FRACGP

+Thomas Peter Gibian, MB BS *Syd.*, FRACP

+Kevin Johnstone, MB BS *Syd.*, FRACP

+Martin John Kennedy, MB BS *Syd.*, DipRACOG, FACRM, FACRM, DGM *Lond.*

+Sheila Mary Knowlden, MB BS *Syd.*, DOBstRCOG, MRACGP

+Friedbert Kohler, MB BS *Syd.*, FACRM, FACRM

Joanne Mitchell, BSc DipND MPH *Syd*

+\*Roger John Renton, MB BS *Syd.*, FACRM FACRM.

+Ian Hugh Rodger, MB BS *Qld* FACRM, FACRM

+Jeffrey Thomas John Rowland, MB BS *UNSW*, FRACP

+Gilbert Whittton, MB BS *Syd.*

+Wendy Wickes, MB BS BSc *Adel.*

+Jennifer Monika Wiltshire, MB BCh *NUI.*

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## Sydney Hospital

### Professor of Sexual Health Medicine

Adrian Mindel, MB BCh *Witw.*, MSc(CTM) *Lond.*, MRCP

### Senior Lecturer

+\*Julian Gold, MB BS *Syd.*, DipE&MS *Lond.*, FAFPHM(RACP)

### Lecturer

+Anna McNulty, MB BS *UNSW*, DipCommunications *U.T.S.*, FACVEN

---

## The Illawarra Health Service

### Lecturers

+Guy Michael Bashford, MB BS *Syd.*, FACRM, FACRM

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

+ Ian Jenssen, MB BS *Syd.*, MBIomedEng *UNSW*

+Shanthi Kanagarajah, MB BS *Syd.*, FRACP

+Geoffrey Robert Murray, BSc MB BS *Syd.*, FACRM, AAOFM

+Christopher Poulos, MB BS *Syd.*, FACRM

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## School of Health Services Management

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### Kensington Campus

#### Head of School

Ian Forbes, BArch *Melb.*, MSc *Br. Col.*, DipAdmin *UNSW*, FRAIA, MRCIA, AFA, CHSE

#### Professors of Health Services Management

James Sutherland Lawson, MB BS MD *Melb.*, MHA *UNSW*

George Rupert Palmer, BSc *Melb.*, MEc *Syd.*, PhD *Lond.*, FCHSE, Hon.FRACMA

#### Associate Professor

Pieter Jacob Degeling, BA *Qld.*, PhD *Syd.*

**Senior Lecturers**

Philip William Bates, BCom LLB *UNSW*, FCHSE  
 Jeffrey Braithwaite, BA *N.E.*, DipLRMIR *Syd.*  
 Mary-Louise McLaws, DTPH MPH PhD *Syd.*, FRSPH&TM  
 Helen Madeleine Lapsley, BA *Auck.*, MEc *Syd.*, FCHSE  
 Stephanie Doris Short, DipPhy BA *UNSW*, MSc *Lond.*,  
 PhD *UNSW*, FCHSE

**Lecturers**

Thomas Benjamin, BA *Mich.*, MBA *MSU*, MPsycho  
*Syd.*, PhD *UNSW*, MAPSS  
 Kevin Vincent Forde, BCom(Hons) MCom(Hons) *UNSW*  
 Anna Whelan, BA *W'gong.*, PhD *Syd.*, RN, SCM

**Visiting Professor**

Don Hindle, BA *Lpl.*, MS PhD *Lanc.*

**Visiting Fellows**

Christopher Aisbett, BSc *UNSW*  
 Colin Grant, MA *Oxf. & Brun.*, FHA  
 Maria Theresa Ho, MB BS *Syd.*, MHA *UNSW*  
 William Lawrence, BA *Syd.*, MHP *UNSW*, AFCHSE,  
 MRACMA  
 Peiling Yang, MHA *UNSW*

**Administrative Officers**

William George Nelson James, BSc(Hons) *LSE*, DipHSA  
*Leeds*, MA *Essex*, PhD *N. Lond.*, CertMSE *Lond. School*  
*of Tropical Medicine* (on secondment from the Office of  
 the Dean)  
 Deidre Kennedy, BA *Deakin*

**Administrative Assistant**

Christine Rousselis

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## School of Medical Education

**Head of School**

Professor A Rotem

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## Kensington Campus

**Professor**

Arie Rotem, BA *Jer.*, MA PhD *Calif.*, FAIM

**Senior Lecturers**

Peter Harris, MB BS *UNSW*, FRACGP  
 Jan Ritchie, DipPhy *Syd.*, MHPed PhD *UNSW*  
 Magnus Stiernborg, BA PhD *Stock.*  
 Patricia Youngblood, MA *Colum.*, BA MEd PhD *NC*

**Lecturers**

Leah Bloomfield, BSc *Syd.*, MPH *UNSW*  
 Susan Furber, BSc PhD *UNSW*, MPH *Syd.* DipCEpi  
*NSW Health Dept.*

☉Brenda Hill, BA DipEd *Syd.*, MPH *UNSW*

Alan Hodgkinson, RN BBus *Kuring-gai C.A.E.*, MCH *UNSW*

**Associate Lecturer**

Franziska Trede, DipPhy *Frieburg*, MHPed *UNSW*

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## World Health Organisation Regional Training Centre for Health Development

**Director**

Professor A Rotem

**Visiting Fellows**

John Colin Harris Dewdney, BA MB BS MD *Melb.*, SM  
*Harv.*, LLB *U.T.S.*, DPH *Lond.*, DipTerEd DipFinMan *NE*,  
 FRACMA, FFCM, FAFPHM, FACHSE  
 Brenda Hill, BA DipEd *Syd.*, MPH *UNSW*  
 Brooke Murphy, BA DipEd *Newc'le.*, MA *Sussex*  
 DipRegPrac  
 Neil Paget, BA *NZ* DipEd MA *Well(NZ)*, MBA *Monash*  
 Sybil Perlmutter, BS *Ill.*, MS *Pepperdine Univ.*, PhD  
*Case Western Reserve Univ.*  
 Graham Roberts, BHA MHA *UNSW*, DPTH *Syd.*, PhD  
*UNSW*

**Emeritus Professor**

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

**Administrative Assistant**

Jacqueline Miller

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## School of Obstetrics and Gynaecology

**Head of School**

Professor MJ Bennett

---

## Royal Hospital for Women

**Professor**

Michael Julian Bennett, MB ChB MD *CapeT.*, FRCOG,  
 FRACOG, DDU, FCOG(SA)

**Associate Professors**

John Anthony Eden, MB BS MD *UNSW*, FRACOG,  
 MRCOG, MRACOG, CREI  
 †Frederick Neville Hacker, MB BS *Qld.*, MD *UNSW*,  
 FRACOG, FRCOG, FACOG, FACS

**Senior Lecturers**

†Peter Treacy Grant, MB BS *Melb.*, FRACOG,  
 FRCS(Edin), CGO(RACOG)

Graeme Jackson Hughes, MB BS *UNSW*, FRACOG, FRCOG

Leo Robin Leader, MB ChB *CapeT.*, MD *UNSW*, FRACOG, FRCOG, FCOG SA, DA RCP&S *Lond.*

### Lecturers

Stephen Dan Horowitz, MB ChB *CapeT.*, MRCOG, FRACOG, FCOG SA

+Swaran Lata Nand, DpSM *Fiji.*, DObst *Otago.*, MRACOG, FRACOG

### Technical Officers

Donald Keith Garrett

Grace Van Der Vegte

### Administrative Assistants

Brooke Anderson

Vivian Wallace

## St George Hospital

### Professor

Michael Chapman, MB BS *Adel.*, MD *Lond.*, MRCOG, FRACOG

### Senior Lecturer

Kate Hilda Moore, MB BS *Syd.*, MD *UNSW*, MRCOG, FRACOG

### Lecturers

+Gregory Davis, MB ChB MD *Auck.*, MRCOG, MRACOG

+Gregory Robertson, MB BS *W.A.*, MRCOG, FRACOG

## South Western Sydney Area Health Service

### Professor

Felix Wong, MB BS *H.K.*, MMed *Sing.*, MD *ChinHK.*, FRCSEd, FRCOG, FRACOG

### Senior Lecturer

+Rajanishwar Gyaneshwar, MB BS *UNSW*, FRACOG

### Lecturers

Michael Cooper, MB BS *Syd.*, FRACOG, MRCOG

+Ian Robert Fulcher, MB BS *Syd.*, DipRACOG, MRCOG, FRACOG

+Gamal Matthias, MB ChB *Cairo.*, MRCOG, FICS, FRACOG

+Geoffrey Donald Reid, MB BS *Mon.*, FRACOG

+John Stefan Smoleniec, MRCOG, MB BCh BScMechEng *J'burg.*

## School of Paediatrics

### Head of School

Professor RL Henry

## Sydney Children's Hospital

### John Beveridge Professor of Paediatrics

Richard Leigh Henry, MB BS *Syd.*,

### Professors

Stephen Bruce Dowton, MB BS MD *Syd.*, FACMG

+Bernard William Stewart, MSc *UNSW*, PhD *Lond.*, FARACI

+Leslie White, MB BS *Syd.*, DSc *UNSW*, FRACP

### Associate Professors

+Ann Mary Evelyn Bye, MB BS *Syd.*, FRACP

+Michelle Haber, BSc(Psych) PhD *UNSW*

Paul Lancaster, MB BS *Syd.*, MPH *UC Berkeley*, FRACP, FAFPHM

+Glenn Mark Marshall MB BS *UNSW*, FRACP

+Graeme John Morgan, MB BS *Syd.*, FRACP

+Murray David Norris, BSc *A.N.U.*, MAppSc *N.S.W.I.T.*, PhD *UNSW*

+Marcus Rex Vowels, AM MB BS *Syd.*, MD *UNSW*, FRACP

+John Bernard Ziegler, MB BS *Syd.*, FRACP

### Senior Lecturers

+Garth Alperstein, MB ChB *CapeT.*, MPH

*HunterColl., N.Y.*, FAAP, FAFPHM, FRACP

Peter Ian Andrews, MB BS *UNSW*, FRACP

+\*Anne Marie Cunningham, MB BS PhD *Syd.*, FRACP

Rose French, BSc(Hons) PhD, *Melb.*

Madlen Gazarian, MB BS, *Syd*, MSc *Toronto*, FRACP

+Owen David Hugh Jones, BA *Cant.*, MB BChir MRCP *UK*

Kau Lui, MB BS *UNSW*, FRACP

John Douglas Mitchell, MB BS *Melb.*, FRACP

Victor Nossar, MB BS *UNSW*, FRACP, FAFPHM

+Edward Chee Pong Shi, MB BS MS *UNSW*, FRACS

### Lecturers

+Susan Adams, MB BS(Hons) *Syd.*, FRACP

Ian Callander, MB BS *Monash*, FRACP

+Felicity Anne Collins, MB BS *Syd.*, FRACP(Paeds)

+\*Clare Alice Cunningham, OAM, MB BS *Syd.*, MRCP *UK* DCH

Bob Fonseca, MB BS *WA*, FRACP

Tom Grattan-Smith, MB BS *UNSW*, FRACP

☉Belinda Goodenough, BA PhD *UNSW*

Robert Guaran, MB BS *Monash*, FRACP

+Kevin Graham Lowe, MB BS *UNSW*, FRACGP, FRACP, FAFRM RACP

Andrew McDonald, MB BS, *Syd.*, DCH, MRCP, FRACP

+Kieran Thomas Moran, MB BCh BAO DipObs DCH *Dublin*, FRACP

†John Robert Morton, MB BS *Adel.*, FRACP, FARGCP, FCCP

David Mowatt, MB BS, *Lond.*, DRACOG, MRCGP, FRACP

†Andrew Herbert Numa, MB BS *Monash*, FRACP

†Matthew O'Meara, MB BS *Syd.*, FRACP

†\*John Kieran Pereira, BMedSc MB BS *UNSW*, FRACS, FRACR

†\*Geoffrey Samuel Peretz, MB BS *Syd.*, FRACR

Susan Russell, MB BS *UNSW*, FRACP

†Alison Mary Rice, BSc *Adelaide*, PhD *Bordeaux II*

Elizabeth Sullivan, MBBS MPH *Lond.*, FAFPHM

†Arthur Yeowtat Teng, MB BS *Syd.*, DipPaed *UNSW*, FRACP

Rodney Tobiansky, MBCh *Wits Johannesburg*, FRACP

†Anne Marguerite Turner, MB BS *UNSW*, FRACP

†Charles Verge, MB BS PhD *Syd.*, FRACP

†Jan Walker MB BS *Syd.*, FRACP

†Christopher Webber, MB BS *Qld*, DipOBS(RACOG)

†Gary David Williams, MB BS *Syd.*, DipObs *RACOG*, DipChHealth *U.K.*, MRCP, FRACP

#### Associate Lecturer

Anthony Epstein, MB BS DipPaed *Syd.*, FRACP

#### Honorary Visiting Professors

Hans Henning Bode, MD *Saarland*, FRACP, DABP, DABPE

Jagdish Mitter Gupta, MB BS *Sing.*, FRACP

Darcy William O'Gorman Hughes, MB BS *Syd.*, MD *UNSW*, FRACP

#### Senior Technical Officer

Louise Margaret Nicholson

#### Administrative Assistant

Annette Wendy Burgess

### St.George Hospital

#### Lecturer

†Thomas Marcus Grattan-Smith, MB BS *UNSW*, FRACP

### South Western Sydney Area Health Service

#### Senior Lecturer

†\*Victor Nossar, MB BS *UNSW*, FRACP, FAFPHM

#### Lecturers

†Ian Robert Callander, MB BS *Monash*, FRACP(Paed)

†Robert Guaran, MB BS *Monash*, FRACP(Paed)

†Arthur Victor Jarrett, MB BS *UNSW*, FRACP

†Andrew McDonald, MB BS *Syd.*, DipCH *Lond.*, MRCP(UK), FRACP

†Shanti Raman, MB BS *Qld.*, FRACP(Paeds)

†Jacqueline Anne Stack, MB BS *Auck.*, FRACP

## School of Pathology

#### Head of School

Professor D Wakefield

### Kensington Campus

#### Professors

Carolyn Geczy, BSc PhD *UNSW*

Cameron Rolfe Howlett, BVSc PhD *Syd.*, MRCVS, MACVSc

Denis Wakefield, MB BS MD *UNSW*, FRACP, FRCPA

#### Associate Professors

☉Andrew Francis Geczy, BSc PhD *UNSW*

Rakesh Kamal Kumar, MB BS *All India I.M.S., New Delhi*, PhD *UNSW*

Andrew Russell Lloyd, MB BS *Syd.*, MD *UNSW*, FRACP

#### Senior Lecturers

Nicholas Hawkins, MB BS PhD MHEd *UNSW*

Shirley Grace Higgins, MB BS *Syd.*, MD *UNSW*

☉John Stephen Sullivan, BSc *Dublin*, PhD *ANU*

Gary Mayer Velan, MB BS PhD *UNSW*

#### Lecturers

☉Heather Duncley, BSc *Otago*, PhD *ANU*

Mark Dziegielewski, BSc *UNSW* MB BS *Syd*

#### Professional Officer

Angelina Enno, BSc *UNSW*

#### Museum Manager

Jenny Horder, BSc *UNSW*

#### Technical Officers

Nalini Jeya Kumar, BSc MSc PhD *Madras*

Gavin Leslie McKenzie, BSc, AssDip Health Science *Macq.*

#### Laboratory Assistant

Lai Nguyen

#### Administrative Officer

Jennifer McLouglin, BA(Com) *UTS*

#### Administrative Assistant

Anne Henderson

Danet Kruth

Wendy Wartho

---

## Prince Henry/Prince of Wales Hospital

### Professors

- +\*Colin Nicholson Chesterman, MB BS *Syd.*, DPhil *Oxf.*, FRACP, FRCPA
- +\*Beng Hock Chong, MB BS *Malaysia*, PhD *Syd.*, FRCPA, FRACP

### Associate Professors

- +Sydney Malcolm Bell, MB BS MD *Syd.*, FRCPA
- +Daya Naidoo, MB ChB MD *Natal*, FRCPA, MAACB
- +\*Dwain Alan Owensby, BSc *Yale*, PhD *A.N.U.*, MD *Miami*, FRACP
- +William David Rawlinson, BSc(Med) MB BS *Syd.*, PhD *Camb.*, FRACP
- +John William Tapsall, MB BS *Qld.*, MD *UNSW*, FRCPA

### Senior Lecturers

- +Michael Francis Buckley, BHB MB ChB *Auck.*, PhD *Mon.*, FRCPA
- +Roger Lindsay Crouch, BMedSc MB BS *Syd.*, FRCPA
- +Philip John Hogg, BSc PhD *Qld.*
- +\*Phillip David Jones, MB BS *Syd.*, PhD *ANU*, FRACP
- +Robert Lindeman, BSc(Med) MB BS PhD *Syd.*, FRACP, FRCPA
- +Peter Charles Taylor, MB BS *UNSW*, FRCPA

### Lecturers

- +Bridget Elizabeth Cooke, MB BS *UNSW*, FRACP
- +Barrie John Gatus, MB BS DTM&H *Lond.*, FRCPA, MRCP
- Levon Michael Khachigian, BSc PhD *UNSW*
- +Vivienne Heather Tobias, MB BCh *Witw.*, FRCPA
- Jeanne Tomlinson, MB BS *WA*, FRACP

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## Royal Hospital for Women

### Senior Lecturer

- +Katherine Elizabeth Williams, MB BS *W.A.*, FRCPA, MSGP, MIGCS

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## St George Hospital

### Senior Lecturers

- +\*Yiu-Lam Kwan, MB BS *H.K.*, FRACP, FRCPA
- +Elizabeth Anita Reiss-Levy, MB BS DCP *Syd.*, FRCPA, MASM

### Lecturers

- +Peter William Kyle, BScAgr MB BS *Syd.*, FRCPA, MRCP
- +Betty Leung, MB BS *UNSW*, FRACP
- +Veli-Matti Marjoniemi, BSc MB BS *Syd.*, FRCPA
- +Constantine Theocharous, MB BS *Syd.*, FRCPA
- +Leon William Vonthehoff, MB BS *Syd.*, FRCPA
- +Cosmas Wong, MB BS *UNSW*, FRCPA

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## St Vincent's Hospital

### Professor

- David Dang Fung Ma, MB BS MD *UNSW*, FRACP FRCPA

### Senior Lecturers

- +\*Anthony John Dodds, MB BS *Syd.*, FRCPA, FRACP
- +John Latham Harkness, MB BS *Monash*, DCP *Lond.*, FRCPA
- ◉Philip Kearney, BSc MBA *Syd.*, PhD *Mon.*
- +Vincent Frederick Munro, MB BS DCP *Syd.*, FRCPA

### Lecturers

- +\*Samuel Thomas Milliken, MB BS *Syd.*, FRACP
- +\*Robyn Lynne Ward, MB BS PhD *UNSW*, FRACP

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## South Western Sydney Area Health Service

### Professor

- +David John Davies, BSc MB ChB MD *L'pool.*, FRCPA

### Associate Professor

- +Rosemary Munro, MB BS *Syd.*, FRCPA, FRC, MRCP, DpBact
- +Jimmy Leng Chai Yong, BSc(Med) MB BS PhD *UNSW*, FRCP

### Senior Lecturers

- +Lindsay Cameron Dunlop, MB BS *UNSW*, FRCPA, FRACP
- +Stanley Victor Catts, MB BS MD *UNSW*, FRANZCP
- +Sujatha Sarojini Eugene Fernando, MB BS *Ceylon*, MSc *Lond.*, FRSTM&H, FRACP
- +\*Michael Peter Harvey, MB BS *Syd.*, FRACP, FRCPA
- +Christine Ken-Choo Loo, BMedSc MB BS PhD *UNSW*, FRCPA
- +Penelope Irene Motum, MB BS (Hons) PhD *Syd.*, FRACP, FRCPA
- +\*David Rosenfeld, MB BS *Syd.*, FRACP, FRCPA
- Philip Bentley Ward, BSc PhD *UNSW*

### Lecturers

- +Christopher Joseph Chui Huo Chow, BSc (Med) *Syd.*, MB BS FRCPA
- +Raymond Christopher Chan, MB BS *Syd.*, FRACP, FRCPA
- +John Gallo, MB BS (Hons) *UNSW*, FRACP, FRCPA

+Iain Bruce Gosbell, MB BS *Syd*, FRACP, FRCPA  
 +Christopher Henderson, BSc *Syd.*, MB BS *UNSW*  
 FRCPA  
 +Katherine Rita Kociuba, MB BS *Syd.*, FRACP, FRCPA  
 +Leonardo Santos, MD *Phil.*, PSP (AP) PSP (CP) FPSP  
 (AP) FRCPA

## School of Physiology and Pharmacology

### Head of School

Professor ER Lumbers

### Kensington Campus

#### Professors

Peter Hosford Barry, BSc PhD *Syd.*, DSc *UNSW*  
 Eugenie Ruth Lumbers, MB BS MD *Adel.*, DSc *UNSW*  
 Mark Joseph Rowe, BPharm MSc *Syd.*, PhD DSc  
*UNSW*

#### Professor

☉Joan Dawes, BA MA DPhil *Oxf.*

#### Associate Professors

☉Graham Anthony Bell, BA MA *Natal*, PhD *LaT.*  
 +Elizabeth Frances Burcher, BSc *Edin.*, PhD *UNSW*  
 John Joseph Carmody, MB BS MD *Qld.*  
 \*Mark William Duncan, BSc PhD *UNSW*, CChem,  
 FRACI  
 Robert Alastair Beveridge Holland, MB BS MD *Syd.*,  
 FRACP  
 Michael Murray, BPharm PhD DSc *Syd.*  
 ☉\*Ian Richard Neering, BSc PhD *UNSW*, MSc *Syd.*  
 Michael Alan Perry, MRurSc *N.E.*, PhD *UNSW*  
 ☉George Arthur Smythe, ATSC BSc PhD, *UNSW*

#### Senior Lecturers

Martin Wolfenden Fryer, BSc PhD *UNSW*  
 David George Garlick, BSc(Med) MB BS *Syd.*, PhD  
*A.N.U.*  
 Karen Jane Gibson, BMedSc MB BS PhD *UNSW*  
 Stewart Ian Head, BSc *Leic.*, PhD *Brist.*  
 Vimal Kapoor, BSc PhD *Edin.*  
 John William Morley, BBSc *LaT.*, MSc PhD *Melb.*  
 Bruce Stanley Nail, BSc *W.A.*, DPhil *Oxf.*  
 +\*Geoffrey Philip Symonds, BSc MSc *Syd.*, PhD  
*Weizmann Inst. Sci.*  
 +Judith Sylvia Walker, DipPharm *CITNZ*, PhD *Syd.*

#### Lecturer

Giuseppe Simonetta, BSc PhD *Monash*

#### Associate Lecturers

Gordon Thomas Coleman, BSc *UNSW*, GradDipEd(Sc)  
*UTS*  
 Miles Philip Davenport, BSc(Med) MB BS *Syd.* DPhil  
*Oxf.*  
 Rosemary Christina Kingsford, BSc *Syd.*, DipEd  
*Syd. Teachers Coll.*, DipAnimalCare *N.S.W.I.T.*  
 Romulada Dorathy Knihinicki, BSc PhD *UNSW*  
 Leslie Gail Ulman, BSc MB ChB *Witw.*, PhD *UNSW*

#### Professional Officers

Edward Norman Crawford, BE *N.S.W.I.T.*  
 John Oliver Ivanov, BSc *UNSW*  
 Andrew Donald Stevens, PhD *UNSW*

#### Senior Technical Officers

Rudolph Bomba  
 Phillip John Crawford  
 Colin Wood

#### Technical Officers

Elaine Patrician Bonnet, ASTC(Chem) *Syd. Tech. Coll.*,  
 BA MSc(Soc) *UNSW*  
 Clare Dominique McManus, BSc *UNSW*  
 Christine Anne Riordan, MB BS *UNSW*

#### Honorary Visiting Professors

Garry George Graham, MSc PhD *Syd.*  
 Paul Ivan Korner, AO, MSc MB BS MD *Syd.*, Hon.DSc  
*UNSW*, Hon.MB *Melb.*, FRACP  
 Denis Newell Wade, BSc(Med) MB BS *Syd.*, DPhil *Oxf.*,  
 FRACP

#### Visiting Fellows

Sandra Anderson, BSc *Syd.*, PhD DSc *Lond.*  
 Mark Anshel, BSc *USA*, MA *Canada*, PhD *USA*  
 Kevin Boundy, MB BS *Adel.*, GradDipEx&SpSc *Syd.*,  
 MSpMed *Canberra*  
 Carolyn Broderick, MB BS *UNSW*, GradDipSpSci *Syd.*  
 Bruce Conolly, MB BS *Syd.*, FRCS *Lond.*, FRACS, FACS  
 Brian Corrigan, MB BS *Syd.*, FACSP, FRACP,  
 FRCPE, FRCR, FAFRM  
 Gillian Phyllis Courtice, BSc PhD *Syd.*  
 Mel Cusi, MB BS *Spain*, FACSP  
 Josette Dangain, DEA *Paris VI*, PhD *U.C.L.*  
 Alan Malcolm Duffield, BSc PhD *W.A.*  
 George Michael Eckert, MB BS MSc PhD *Syd.*  
 Kaneez Fatima-Shad, BSc MSc *Karachi*, PhD *UNSW*  
 Christopher Ralph French, BSc MB BS *Syd.*, PhD  
*UNSW*  
 Alex Ganora, MB BS DPRM *Syd.*, FRACGP, FACRM,  
 FACOM, FAFRM(RACP), FAFOM(RACP)  
 Ian Hargreaves, MB BS, FRACP(Orth), FAOrthA  
 Dana Dominica Jamieson, MSc *Syd.*, DSc *UNSW*  
 Siri Kannangara, MB BS *Sri Lanka*, FRACP  
 +\*Stephen Robert Lord, BSc MA *Syd.*, PhD *UNSW*  
 Joseph William Lynch, BSc *Melb.*, MBE PhD *UNSW*  
 David Macauley, MB BS *UNSW*, FRACP  
 Jenny McConnell, BAppSc(Pty) GradDipManTherap  
 MBIomedE *UNSW*  
 +\*Kate Hilda Moore, MB BS *Syd.*, MD *UNSW*,  
 MRCOG, FRACOG



Gregory Michael Murray, PhD *Tor.*, MDS *Syd.*, FRACDS  
 Helen O'Connor, BSc *UNSW*, DipNutDiet PhD *Syd.*  
 Tim Olds, BA BSpSc PhD *UNSW*, PhD *Syd.*  
 John Orchard, MB BS BA *Melb.*, FACSP  
 Jennifer Mary Saunders, MB BS *UNSW*, FACSP  
 Francine St George, MSc GradDipPhysio  
 GradDipSpSc*Syd.*, MAPA  
 Sergey Ivanovich Shevchenko, BSc *Kiev*, PhD *Moscow*  
 Rosemary Stanton, BSc CertNutDiet GradDipAdmin *Syd.*  
 Jeffrey Steinweg, BSc MB BS *UNSW*, GradDipSpSc  
*Syd.*, FACSP  
 Neal Thomson, MB BS *Syd.*, FRCS Ed, FRACS, FAOrthA  
 Stuart Watson, MB BS GradDipSpSc *Syd.*, FACSP,  
 FASMF

#### Senior Administrative Officer

Barbara Millicent Bohdanowicz, BSc DipEd *Syd.*

---

### Prince of Wales Medical Research Institute

#### Professors

+Douglas Ian McCloskey, AO, BSc(Med) MB BS *Syd.*,  
 DPhil *Oxf.*, DSc *UNSW*, FRACP, FTE, FAA  
 +Elspeth Mary McLachlan, BSc PhD *Syd.* FAA

#### Associate Professor

+Erica Kathleen Potter, BSc *Syd.*, PhD DSc *UNSW*

#### Lecturers

⊙James Alexander Brock, BSc *York*, BPhil *Oxf.*  
 Richard Charles Fitzpatrick, BSc(Med) MB BS PhD  
*UNSW*  
 ⊙Vaughan Gary Macefield, BSc PhD *UNSW*  
 +Janet Louise Taylor, MB BS MBIomedE MD *UNSW*

---

### St George Hospital

#### Professor

+\*Lawrence Guy Howes, MB BS PhD *Melb.*, FRACP

---

### St Vincent's Hospital

#### Professor of Clinical Pharmacology

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

#### Associate Professors

+\*Terence John Campbell, BSc(Med) MB BS *UNSW*,  
 DPhil *Oxf.*, FRACP  
 ⊙Kenneth Mapson Williams, BSc PhD *UNSW*

#### Lecturer

+Mark Hicks, BA MSc PhD *Macq.*

---

## School of Psychiatry

#### Head of School

Professor GB Parker

---

### Prince Henry/Prince of Wales Hospital

#### Professors

+Henry Brodaty, MB BS *Syd.*, MD *UNSW*, FRACP,  
 FRANZCP  
 +Robert Astley Finlay-Jones, MB BS PhD *W.A.*,  
 DipPsyMed, FRANZCP, MRCP, FRCPsych  
 +Florence Levy, MB BS *Melb.*, MPh *Yale*, MD *UNSW*  
 MRANZCP  
 Gordon Barraclough Parker, MB BS *Syd.*, DSc MD PhD  
*UNSW*, FRANZCP  
 Perminder Singh Sachdev, MB BS MD PhD *UNSW*,  
 MRANZCP

#### Associate Professors

+Stewart Lloyd Einfeld, MB BS MD *Syd.*, DCH *RCP&S.*,  
 FRANZCP  
 Philip Bowden Mitchell, MB BS *Syd.*, MD *UNSW*,  
 MRCPsych, FRANZCP

#### Senior Lecturers

+\*Brian Michael Draper, MB BS *UNSW*, FRANZCP  
 ⊙Dusan Hadzi-Pavlovic, BSc MPsych *UNSW*  
 +Richard John Perkins, MB BS *Lond.*,  
 DPM(RCP&RCS), MRCPsych  
 Uta Sybille Vollmer-Conna, BSc PhD *UNSW*

#### Lecturers

+William Bruce Andrews, MB BS *UNSW*, FRANZCP  
 +Marie-Paule Veronique Austin, MB BS *Monash*,  
 FRANZCP  
 +Jackie Curtis, MB BS *UNSW*, FRANZCP  
 +Charles Post Doutney, MB BS *Syd.*, FRANZCP  
 +Michael Dudley, MB BS *Syd.*, BD *Melb.*, FRANZCP  
 +Francis Paul Hume, MB BS *Syd.*, FRACP, MRCPsych  
 +Stephen James Koder, MB BS *Syd.*, GradDipEd  
*Syd.I.E.*, FRANZCP  
 Kathryn Lovric, BMus *Con.Music*, MB BS *UNSW*,  
 FRANZCP  
 +Vivienne Schnieden, MRCPsych, MB BS *Westminster*,  
 MA *Cant.*  
 +Michaela Anne Skopek, MBBS *UNSW*, FRANZCP  
 +Julian Norman Trollor, MB BS *UNSW*, FRANZCP

#### Visiting Professors

Nathaniel McConaghy, MB BS *Qld.*, BSc MD DPM  
*Melb.*, FRANZCP  
 Beverley Raphael AM, BS BS MD *Syd.*,  
 DipPsyMed(ANZCP), FRCPsych., FRANZCP, FAASS,  
 FAPsyA(USA)

#### Visiting Fellow

Carolyn Quadrio, MB BS FRANZCP

**Administrative Assistant**

Judith O'Rourke

---

**St George Hospital****Professor**Ian Bernard Hickie, MB BS MD *UNSW*, FRANZCP**Lecturers**+\*David James Burke, BMed *N'cle.(N.S.W.)*, FRANZCP+Elizabeth Mackenzie, MB BS *UNSW*, FRANZCP+Faiz Node, MB BS *Syd.*, MM *Syd.*, FRANZCP+Michael Baden Paton, MB BS *Syd.*, FRANZCP+Grant Sara, MB BS MM *Syd.*, FRANZCP+Elizabeth Margaret Scott, BSc MB BS *Middlesex*+Jeff Snars, MB BS *Syd.*, FRANZCP+Margaret Julia Tobin, MB BS *Melb.*, MBA *Monash.*,  
FRANZCP, FRACMA, AFCHSE+Chanaka Wijeratne, MB BS *UNSW*, FRANZCP

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**St Vincent's Hospital****Professor**John Gavin Andrews, MB ChB MD *Otago*, DipPsyMed  
*Melb.*, FRANZCP, FRCPsych**Associate Professor**+Kathleen Anne Wilhelm, MB BS MD *UNSW*,  
FRANZCP**Lecturers**+Johnathan Montah Carne, MB BS *UNSW* MPH *Syd.*+Christopher Corcos, MB BS MRCPsych *UK*Caroline Jane Hunt, BSc(Psych) MPsych PhD *UNSW*+Beth Kotze, MB BS *Syd.*, FRANZCP

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**South Western Sydney Area Health Service****Professor**Derrick Michael Silove, MB ChB *CapeT.*, FRANZCP**Associate Professors**Bryanne Ethel Waldie Barnett, MB ChB *Aberd.*, MD  
*UNSW*, FRANZCPAlexander Blaszczyński, BA PhD *UNSW*, MA DipPsych  
*Syd.*, MAPS+Scott Cameron Clark, MD *NJMS***Senior Lecturers**Jeffrey Cecil Cubis, MB BS *Syd.*, PhD *NEW*. FRANZCP,  
MFCAP.+James Thomas Quinn, MB BS DipPsyMed MD *Belf.*,  
FRANZCP+John Taylor, MB BS *Syd.*, MD *UNSW* FRANZCP**Lecturers**+\*Eva Dzintars, MB BS MMed *Syd.*, DipPsyMed  
RCP&S, FRANZCP+Kevin Ludlow Clarke, MB BS *UNSW* FRANZCP+Michael Giuffrida, MB BS *Syd.*, FRANZCP+David Grace, MB BS *UNSW*, FRANZCP+Jose Alberto Menendez, MD *Urug.*, FRANZCP+Louise Kathryn Newman, BA MB BS *Syd.*, FRANZCPSidney Oen, MB BS *Syd.*, FRANZCPSam Vadali, MB BS India MRCP *UK* MRCS *Eng.*, LRCP  
*Lond.*, BA FRANZCP+Renate Wagner, PhD *Vienna*, DipHed *UNSW*

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**Presiding Members of Disciplines****Anaesthetics, Emergency Medicine and Intensive Care**

Dr Gordian Fulde

**Medicine**

Professor Bruce Milne Hall

**Surgery**

Professor Reginald Sidney Albert Lord

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**Faculty Units and Centres**

---

**Centre for Hospital Management and  
Information Systems Research****Director**

Professor George Palmer

**Associate Director**

Associate Professor Pieter Degeling

---

**The Ray Williams Biomedical Mass  
Spectrometry Facility****Director and Associate Professor**\*Mark William Duncan, BSc PhD *UNSW*, CChem, FRACI**Deputy Director & Associate Professor**\*George Albert Smythe, ASTC BSc PhD *UNSW***Professional Officers**Martin Bucknall, BSc *Manchester*Anne Poljak, BSc *Syd.***Research Fellow**Kerryn Mason, BAppSc DipInd.Micro *Swin UT*

**Honorary Visiting Fellow**

Ian Gregor, BSc *New England*, MSc PhD *UNSW*

**Centre for Immunology – St Vincent’s Hospital****Director**

Professor R Penny

**Advisory Committee**

Professor S Bruce Dowton (Chair)

Professor A Lee

Professor R Penny

Professor M Sleigh

Professor D Wakefield

**Centre for Public Health****Director**

Mr I Forbes

**Management Committee**

Professor PE Baume (Chair)

Mr J Braithwaite

Mr A Hodgkinson

Professor J Kaldor

Professor J Lawson

Associate Professor R Richmond

Dr J Ritchie

Professor A Rotem

Dr P Youngblood

**Centre for Thrombosis and Vascular Research****Director**

Professor CN Chesterman

**Management Committee**

Professor CN Chesterman (Chair)

Professor BH Chong

Dr PJ Hogg

Dr DA Owensby

**Advisory Committee**

Emeritus Professor WE Glover (Chair)

Associate Professor SM Bell

Professor CN Chesterman

Mr AIL Gregory

Professor MJ Sleigh

Professor D Wakefield

Professor JA Whitworth

Emeritus Professor DEL Wilcken

**Medical Illustration Unit****Head**

Michael J Oakey, AIMI, AAIMBI

**Second-in-Charge**

Virginia Day

**Senior Graphic Designer**

Marcus Cremonese, BA *Brazil*

**National Centre in HIV Epidemiology and Clinical Research****Professor and Director**

David Albert Cooper, BSc(Med) MB BS *Syd.*, MD DSc *UNSW*, FRACP, FRCPA

**Professor and Deputy Director**

John Kaldor, BA *WA*, MA *ANU*, PhD *Calif.*

**Senior Lecturer and Director, Community HIV Research Network**

Don Edward Smith, MB ChB MD *Otago*

**Senior Lecturer**

Sean Emery, BSc PhD *Brunel*

**Lecturers**

Kathleen Ruth Clezy, MB BS *Adel.*, FRACP

Gregory John Dore, BSc MB BS *UNSW*, FRACP

Denise Fagan, BScPharmacol *Glas.*, PhD *Edin.*

Andrew Edwin Grulich, MB BS *Adel.*, MSc(Epid) *Lond.*, DipObst *Flin.*

Matthew Law, MA *Oxf.*, MSc *Kent*

Mark Newell, MB BS *Melb.*, DipGUM *Lond.*

**Manager, Finance and Administration**

Margaret Micallef, BSocSci *UNSW*

**Honorary Visiting Fellows**

Bruce Brew, MB BS *Syd.*, FRACP

John (Nick) Crofts, MB BS *Melb.*, MPH *Mon.*, FAFPHM

Sandra Claire Thompson, BSc(Med) MB BS *UNSW*,

PhD *New.*, MPH *Mon.*, FAFPHM

Alex Wodak, MB BS *Syd.*, MRACP FRACP MRCP

FAFPHM

**Management Committee**

Professor S. Bruce Dowton (Chair)

Dr S Cameron

Professor DA Cooper

Dr C Mead

Mr R O'Donoghue

Professor G Stewart

Dr D Robinson

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## National Drug and Alcohol Research Centre

**Professor and Director**Wayne Denis Hall, BSc PhD *UNSW***Associate Professor**Richard Phillip Mattick, BSc MPsych PhD *UNSW***Senior Lecturers**James Bell, BA MB BS *Syd.*, FRACP, AMPSADShane Darke, BA PhD *Syd.***Lecturers**Jan Copeland, BSc PhD *UNSW*Michael Lynskey, BSc (Hons) MSc PhD *Otago.*Maree Teesson, BSc PhD *UNSW***Board of Management**

The Hon. K Rozzoli, MP (Chair)

Mr K Evans

Professor CJD Fell

Professor SB Dowton

Professor WD Hall

Ms S Kerr

Associate Professor A Mant

Associate Professor RP Mattick

Dr N Swan

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## Australian Institute of Health & Welfare National Perinatal Statistics Unit

**Director**

Associate Professor Paul Lancaster

**Deputy Director**Elizabeth Anne Sullivan, MB BS MPH *Syd.*, FFPHM

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## Rural Health Unit

**Senior Lecturer, Kensington Campus**David Alexander Sutherland, MB BS *Syd.*, DCH,MClinEd *UNSW*, FRACGP**Project Officer**Michaela Anne Turner, BA *Canb.***Administrative Assistant**

Wendy Anne Kelly

**Wagga Wagga Base Hospital Clinical Warden**John Preddy, BM BS MRCP *UK* FRACP**Lecturer**\*Phillip Gray, BSc MB BS DipObst *DA UK* FRACGP

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## Affiliated Institutes

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### Children's Cancer Research Institute - Sydney Children's Hospital

**Professor and Director**Bernard William Stewart, MSc *UNSW*, PhD *Lond.*, FRACI**Associate Professors**Michelle Haber, BSc(Psych) PhD *UNSW*Marcus Rex Vowels, AM, MB BS *Syd.*, MD *UNSW*, FRACP**Senior Research Fellows**Glen Mark Marshall, MB BS MD *UNSW*, FRACPMurray David Norris, BSc *A.N.U.*, MAppSc *N.S.W.I.T.*,  
PhD *UNSW***Board**

Mr J McAdam (Chair)

Dr R Toll (Vice Chair)

Mr B Collins

Dr J Dehnert

Mr B Fisk

Mr S Jones

Dr G Marshall

Mrs H McAdam

Associate Professor DW O'Gorman Hughes

Mr G Sprague

Professor L White

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### Garvan Institute of Medical Research - St Vincent's Hospital

**Professor, Executive Director and Head,  
Neurobiology Division**John Shine, AO, BSc(Hons) PhD *A.N.U.*, FAA**Professor and Head, Metabolic Research Division**Donald John Chisholm, MB BS *Syd.*, FRACP**Professor and Head, Bone and Mineral Research  
Division**John Allan Eisman, AO, BSc(Med) MB BS *Syd.*, PhD  
*Melb.*, FRACP**Professor and Head, Cancer Research Program**Robert Lyndsay Sutherland, MAgSc *Cant.*, PhD *A.N.U.***Associate Professors**Lesley Campbell, MB BS *Syd.*, MD *Wash.*, MD *UNSW*,  
FRACP, MRCPKen Kian Yong Ho, MB BS *Syd.*, MD *UNSW*, FRACPEdward William Kraegen, BSc PhD *UNSW*, MACPSMPeter Robert Schofield, BScAgr *Syd.*, PhD *A.N.U.*

**Senior Lecturers**

Trevor Biden, BSc (Hons) PhD *Lond.*  
 Gregory Cooney, BSc (Hons) PhD *Syd.*  
 Anne Marie Cunningham, MB BS PhD *Syd.*, FRACP  
 Roger Daly, BSc PhD *Liv.*  
 Edith Gardiner, BSc PhD *Yale.*  
 Herbert Herzog, Mag., Dr., *Priv. Doz.*  
 Elizabeth Musgrove, BSc PhD  
 Colin Watts, BSc *Otago*, PhD *Syd.*

**Lecturer**

Tiina Iismaa, BSc PhD

**Board**

Mr PJ Wills AM (Chair)  
 Sister Maria Cunningham RSC  
 Professor S. Bruce Downton  
 Mr JH Gardener (Treasurer)  
 Rev. Dr G Gleeson  
 Ms H Lynch, AM  
 Mr D Mortimer  
 Professor J Niland AO (Deputy Chair)  
 Sister P Pilkington, RSC AM  
 Professor A Rogers QC  
 Mr J Schaap  
 Professor J Shine AO  
 Professor RJA Trent  
 Mr R Williams, AM  
 Dr A Wilson

**Victor Chang Cardiac Research Institute****Professor and Executive Director**

Robert Graham, MB BS MD *UNSW*, FRACP, FACP

**Board**

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 Mr Steven Lowy  
 Sr Paulina Pilkington

**Prince of Wales Medical Research Institute –  
Prince of Wales Hospital****Professor and Director**

Douglas Ian McCloskey, AO, BSc(Med) MB BS *Syd.*,  
 DPhil *Oxf.*, DSc *UNSW*, FRACP, FTSE, FAA

**Professor and Director of Clinical Research**

David James Burke, MD DSc *UNSW*, FRACP, FTSE,  
 FAA

**Professors**

Simon Charles Gandeia, BSc(Med) MD PhD DSc  
*UNSW*, FAA  
 Elspeth Mary McLachlan, BSc PhD DSc *Syd.*, FAA  
 Erica Kathleen Potter, BSc *Syd.*, PhD DSc *UNSW*

**Senior Lecturer**

Glenda Margaret Halliday, BSc PhD *UNSW*

**Lecturers**

James Alexander Brock, BSc *York*, Dphil *Oxf.*  
 Stephen Ronald Lord, BSc MA *Syd.*, PhD *UNSW*  
 Vaughan Gary Macefield, BSc PhD *UNSW*  
 Ilona Mogyoros, MD *Semmelweis*, PhD *UNSW*  
 Janet Louise Taylor, MB BS MBIomedE MD *UNSW*

**Board**

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 Mr D Booth  
 Mr P Brassil  
 Professor RAL Dampney  
 Professor SB Downton  
 Mr J Everett  
 Ms D Green  
 Dr D Grimes, AO  
 Professor DI McCloskey, AO  
 Ms A Milman  
 Professor A Pettigrew  
 Mr D Thomas  
 Mr J Walton, AM

**Skin and Cancer Foundation****Associate Professor**

Steven Kossard, BSc MB BS PhD *Syd.*, FACD

**Medical Director**

John de Launey, MB BS FACD

**Key to Codes**

+ Conjoint appointment

\* Appointment across two schools

⊙ Adjunct appointment



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# Handbook Guide

This Handbook is divided into two main sections comprising undergraduate study and postgraduate study. Read the opening sections of the handbook first, and then read the information relevant to your selected course, undergraduate or postgraduate 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.

## Information Key

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

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CP	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
WKS	weeks of duration
X	external

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## Prefixes

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

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Prefix	Organisational Unit	Faculty/Board
ANAT	School of Anatomy	Medicine
ARTS	Faculty of Arts & Social Sciences	Arts and Social Sciences
BIOC	School of Biochemistry	Life Sciences
BIOS	School of Biological Science	Life Sciences
BIOT	Department of Biotechnology	Life Sciences
BSSM	Board of Studies in Science & Mathematics	—
CHEM	School of Chemistry	Science & Technology
CMED	School of Community Medicine	Medicine
HEAL	School of Health Services Management	Medicine
MATH	School of Mathematics	Science & Technology

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Prefix	Organisational Unit	Faculty/Board
MDSG	Medicine/Surgery Clinical Studies	Medicine
MEED	School of Medical Education	Medicine
MFAC	Faculty of Medicine	Medicine
MICR	School of Microbiology & Immunology	Life 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 & Technology
PSCY	School of Psychiatry	Medicine

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



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## Some People Who Can Help You

If you require advice about enrolment, degree requirements, progression within courses or with any other general Faculty matter, contact one of the following people located in the Office of the Dean (map reference B27):

Undergraduate – Gordon Rees, Administrative Officer, Faculty of Medicine, telephone (02) 9385 2459.

Postgraduate – Helen Cannella, Administrative Officer, Faculty of Medicine, telephone (02) 9385 2457

Elective term/Clerkships – Moya Pedemont, Administrative Assistant, Faculty of Medicine, telephone (02) 9385 2452.

Jeffrey Warnock, Executive Officer, Faculty of Medicine, telephone (02) 9385 2450.

Faculty of Medicine Administration: telephone (02) 9385 2454, fax (02) 9385 1874, e-mail: [info@notes.med.unsw.edu.au](mailto:info@notes.med.unsw.edu.au).

The Faculty of Medicine's homepage may be located at <http://www.med.unsw.edu.au>.

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## 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, both full time academics as well as conjoint appointees from teaching hospitals, student

representatives and other persons nominated by the Faculty. 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, Health Services Management, Medical Education, Obstetrics and Gynaecology, Paediatrics, Pathology, Physiology and Pharmacology, Psychiatry and the Clinical Schools in each of the Prince Henry/Prince of Wales Hospitals, 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, Emergency Medicine and Intensive Care. The Faculty is supported in its operations by the Centres for Immunology, National Drug and Alcohol Research, Public Health, Thrombosis and Vascular Research as well as the Ray Williams Mass Spectrometry Unit, the Medical Illustration Unit, the National Perinatal Statistics Unit, the Rural Health Unit, the National Centre in HIV Epidemiology and Clinical Research, and the joint Sydney University and UNSW Sexual Health Unit. The Faculty is also affiliated with the Garvan Institute of Medical Research at St Vincent's Hospital, the Prince of Wales Medical Research Institute at the Prince of Wales Hospital, the Children's Cancer Research Institute at the Sydney Children's Hospital, the Victor Chang Cardiac Research Institute, and the Skin and Cancer Foundation.

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## Goals of the Faculty

The current major goals for the Faculty are to excel in the quality of the undergraduate teaching and the postgraduate research and teaching.

## Committees of the Faculty

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  
 Year Assessment Committees  
 Course Evaluation Committee  
 Faculty Research Advisory Committee  
 Committee of Women Academics  
 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 Immunology Advisory Committee  
 National Centre in HIV Epidemiology and Clinical  
 Research Management Committee  
 Centre for Public Health Management Committee  
 Children's Cancer Research Institute Advisory  
 Committee  
 National Drug and Alcohol Research Centre Board of  
 Management  
 Medical Illustration Unit Advisory Committee  
 Australian Postgraduate Awards Committee  
 Overseas Postgraduate Research Scholarship Committee  
 Rural Health Education Committee  
 General Education Committee  
 Computing Committee  
 National Perinatal Statistics Unit Management Committee

## Costs in Addition to Fees

Details of fees have been provided in the Guide to Students 1999 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.

## Credit Points

From 1996, UNSW introduced a university wide credit point system for all subjects offered to both undergraduate and postgraduate students. The system means that a subject will have the same credit point value irrespective of which faculty's course it is counting towards. Students are able to determine the value of subjects taken from other faculties when planning their programs of study. The student load for a subject is calculated by dividing the credit point value of a subject by the total credit points required for the program for that year of the course. Student load is used to determine both HECS and overseas student fees. Students who take more than the standard load for that year of a course will pay more HECS.

Old subject measures have been replaced by new university credit points. Every effort has been made to ensure the accuracy of the credit point values shown for all subjects. However, if any inconsistencies between old and new credit point measures cause concern, students are advised to check with their faculty office for clarification before making subject selections based on the credit points shown in this handbook.

## General Education Program

UNSW requires that all undergraduate students undertake a structured program in general education as an integral part of studies for their degree. The University believes that a General Education complements the more specialised learning undertaken in a student's chosen field of study and contributes to the flexibility which graduates are increasingly required to demonstrate. Employers repeatedly point to the complex nature of the modern work environment and advise that they value highly graduates with the skills provided by a broad general education, as well as the specialised knowledge provided in more narrowly defined degree programs. As well, over many years graduates of this University have reported that they greatly valued their General Education studies, which are found to be relevant to both career and personal development.

The General Education Program at UNSW intends to broaden students' understanding of the environment in which they live and work and to enhance their skills of critical analysis.

### Objectives of the General Education Program

The following objectives were approved by the Council of the University in December 1994.

1. To provide a learning environment in which students acquire, develop, and deploy skills of rational thought and critical analysis.
2. To enable students to evaluate arguments and information.
3. To empower students to challenge systematically received traditions of knowledge, beliefs and values.
4. To enable students to acquire skills and competencies, including written and spoken communication skills.
5. To ensure that students examine the purposes and consequences of their education and experience at University, and to foster acceptance of professional and ethical action and the social responsibility of graduates.
6. To foster among students the competence and the confidence to contribute creatively and responsibly to the development of their society.
7. To provide structured opportunities for students from disparate disciplines to interact co-operatively within a learning situation.
8. To provide opportunities for students to explore discipline and paradigm bases other than those of their professional or major disciplinary specialisation through non-specialist subjects offered in those other areas.
9. To provide an environment in which students are able to experience the benefits of moving beyond the knowledge boundaries of a single discipline and explore cross- and interdisciplinary connections.
10. To provide a learning environment and teaching methodology in which students can bring the approaches of a number of disciplines to bear on a complex problem or issue.

### General Education Requirements

The basic General Education requirements are the same for students in all single degree courses. Over the course of a degree program students must:

- satisfactorily complete a minimum of 30 credit points of study in General Education subjects or their equivalent;
- undertake an additional fifty-six (56) hours of study which ensures that students examine the purposes and consequences of their education and experience at university, and fosters acceptance of professional and ethical action and social responsibility. This fifty-six hours of study may be distributed throughout the course, or exist as a separate subject, depending on the course.

Because the objectives of General Education require students to explore discipline and paradigm bases other than those of their professional or major disciplinary specialisation, **all students are excluded from counting subjects toward the fulfillment of the General Education requirement, which are similar in content or approach to subjects required in their course.**

### Faculty Requirements

Each Faculty has responsibility for deciding what subjects are *not* able to be counted towards the General Education requirement for their students. In most cases, this means that subjects offered by the Faculty in which a student is enrolled, or subjects which are a required part of a course even though offered by another Faculty, are *not* able to be counted toward the General Education requirement.

Students should consult the General Education Handbook for detailed information about what subjects may and may not be taken to fulfil the General Education requirements for each course offered by the Faculty. The General Education Handbook is freely available from all Faculty Offices.

### Additional information for undergraduate students who first enrolled before 1996

#### Transitional arrangements

It is intended that no student will be disadvantaged by the change to the new General Education Program. The old Program had specific requirements to complete four session length subjects (or their equivalent) in designated categories A and B. The new General Education Program does not categorise subjects in the same way.

As a result, students who enrolled prior to 1996 will be given full credit for any General Education subjects completed up to the end of Session 2, 1995.

From the summer session of 1995-96, students will be required to satisfy the unfilled portion of their General Education requirement under the terms of the new Program.

The exemption of General Education requirements for some double or combined degree programs will continue to apply for students who enrolled in these exempt courses prior to 1996.

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### 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; note taking; readers and sign interpreters.

A Resource Guide for students is available from the Equity Officer (Disabilities), the Equity & Diversity Unit, the Library and the Student Guide.

It is advisable to make contact with the Equity Officer (Disabilities) prior to, or immediately following enrolment, to discuss your support requirements. The Equity Officer (Disabilities) can be contacted on 9385 4770 or at the Equity & Diversity Unit located on Level 2, East Wing, Quadrangle Building.

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

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## Student Equity

The University of New South Wales is committed to providing an educational environment that is free from discrimination and harassment. Both Commonwealth and State anti-discrimination law requires the University not to discriminate against students or prospective students on the following grounds: sex, race/ethnicity, age, disability, marital status, pregnancy, sexuality, HIV/AIDS. Also included are acts of vilification on the grounds of: race, HIV/AIDS and homosexuality.

### Complaint/Disputes

The University has internal dispute handling procedures to deal with complaints against staff or other students. The Discrimination and Harassment Grievance Procedures are handled by the Equity & Diversity Unit. Complaints that concern academic matters are usually handled through the Head of School.

### Advocacy and Support

Students can seek assistance with dispute resolution, either in relation to discrimination or academic matters. Assistance can be sought from various areas in the University including: Equity & Diversity Unit; Student Guild Advocacy Service; Student Counselling; Course Co-ordinators; Senior Academic Staff; Heads of School.

Students may be confident that their interests will be protected by the University if a complaint is lodged. This means that students should not be disadvantaged or victimised because they have, in good faith, sought to assert their rights to equal opportunity in education.

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## Equal Opportunity in Education Policy Statement

Under the Federal Racial Discrimination Act (1975), Sex Discrimination Act (1984), Disability Discrimination Act (1992) and the New South Wales Anti-Discrimination Act (1977), the University is required not to discriminate against students or prospective students on the grounds of sex, marital status, pregnancy, race, nationality, national or

ethnic origin, colour, homosexuality or disability. Under the University of New South Wales Act (1989), the University declares that it will not discriminate on the grounds of religious or political affiliations, views or beliefs.

### University Commitment to Equal Opportunity in Education

As well as recognising its statutory obligations as listed, the University will eliminate discrimination on any other grounds which it deems to constitute disadvantage. The University is committed to providing a place to study free from harassment and discrimination, and one in which every student is encouraged to work towards her/his maximum potential. The University further commits itself to course design, curriculum content, classroom environment, assessment procedures and other aspects of campus life which will provide equality of educational opportunity to all students.

### Special Admissions Schemes

The University will encourage the enrolment of students who belong to disadvantaged groups through programs such as the University Preparation Program and the ACCESS Scheme. Where members of disadvantaged groups are particularly under-represented in certain disciplines, the responsible faculties will actively encourage their enrolment. As well, the Faculty of Medicine operates special admission schemes for refugee medical practitioners and for students from rural and remote areas.

### Rural Student Entry Scheme

For details, refer to the Undergraduate Study section.

### Support of Disadvantaged Students

The University will provide support to assist the successful completion of studies by disadvantaged group members through such means as the Aboriginal Education Program, and the Learning Centre. It will work towards the provision of other resources, such as access for students with impaired mobility, assistance to students with other disabilities, the provision of a parents' room on the upper campus, and increased assistance with English language and communication.

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

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.

### Course Content, Curriculum Design, Teaching and Assessment, and Printed Material

Schools and faculties will monitor course content (including titles), teaching methods, assessment procedures, written material (including study guides and handbook and Calendar entries) and audiovisual material to ensure that they are not discriminatory or offensive and that they

encourage and facilitate full participation in education by disadvantaged people.

### **Equal Opportunity Adviser Scheme**

The University will continue its Equal Opportunity Adviser Scheme for students who feel that they have been harassed or who consider they have been disadvantaged in their education by practices and procedures within the University.

### **Harassment Policy**

The University is committed to ensuring freedom from harassment for all people working or studying within the institution. It will continue to take action, including disciplinary action, to ensure that freedom from harassment is achieved.

### **Grievance Officers and Procedures**

Students should attempt to resolve any grievance with the staff member(s) concerned within a reasonable time frame.

If the problem is still unresolved, students should contact staff in the Office of the Dean, who will direct them to the grievance officer nominated from the appropriate school.

Grievance procedures to be followed are detailed in the Student Guide.

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## **Special Government Policies**

The NSW Health Department and the NSW Department of Education and Training have special requirements and policies of which students of health-related and education courses should be aware. The requirements relate to:

- clinical/internship placements which must be undertaken as part of the course *and*
- procedures for employment after completion of the course

## **Health-related courses**

### **Criminal record checks**

The NSW Health Department has a policy that all students undertaking clinical placements, undergo a criminal record check prior to employment or placement in any capacity in the NSW Health System. This check will be conducted by the NSW Police Service and will be co-ordinated by the Department of Health.

### **Infectious diseases**

Students required to complete clinical training in the NSW hospital system will be subject to various guidelines and procedures laid down for health workers by the NSW Department of Health relating to vaccination and infection control.

An information sheet is available from your course officer and further details can be obtained from your Course Authority.

## **Education courses**

### **Criminal record checks**

It is a requirement that a check of police records be conducted for all teacher education students applying for an unsupervised internship placement in a New South Wales Government school.

Contact your course co-ordinator for further details.

## Hospital Teaching Campuses

### The South Eastern Sydney Area Health Service

Telephone (02) 9382 9898, Facsimile (02) 9382 9891

The South Eastern Sydney Area Health Service was formed in 1995 with the amalgamation of the Eastern and Southern Area Health Services. The Area extends from Sydney Harbour in north through Botany Bay and Port Hacking to the Royal National Park in the south.

The Area provides a range of hospital and community health care services for some 746,000 residents. It also serves a significant daily inflow of people to the Central Business District, the University of New South Wales, the local and international airports, Kings Cross and popular beaches. Many people per day transit the area.

Three principal teaching hospitals, three speciality referral hospitals and many associated teaching hospitals are located in the area. There is predominantly an aging population. Approximately 33% of residents are born overseas and 70% of those are from non-English speaking countries. It is anticipated that the population will remain relatively static, with only 4% projected growth by 2001. Services are being constantly reviewed to ensure that they meet the needs of the community.

### Principal Teaching Hospitals

#### The Prince Henry / The Prince of Wales Hospitals

Barker Street, Randwick 2031

Telephone: (02) 9382 2222, Facsimile: (02) 9382 2055

The Prince Henry Hospital, located at picturesque Little Bay, was first established as the Coast Hospital in 1881 to cope with an outbreak of smallpox. In 1934 the Hospital was renamed The Prince Henry Hospital.

The Prince of Wales Hospital was founded as an annexe of Sydney Hospital in 1953, although hospital services were established on the site following the closure of the Society for Destitute Children in 1915. During the First and Second World Wars, the site served as a Military Hospital and in 1923 and 1945 was used for repatriation.

The Prince Henry and The Prince of Wales Hospitals were joined under a common management in 1962 to form the principal teaching hospitals for the Medical School of the University of NSW.

The Prince of Wales Hospital has recently undergone a period of major redevelopment to enable all acute services to be accommodated on the Randwick Campus, which it shares with the Sydney Children's Hospital, the Royal Hospital for Women and the Prince of Wales Private Hospital. The Prince Henry Hospital will be redeveloped as a Centre for Aged Care and Rehabilitation Medicine.

The Prince Henry and Prince of Wales Hospitals currently consist of 568 beds covering all specialties and subspecialties. In addition, Statewide services provided include: Hyperbaric Medicine Unit, Spinal Injuries, Lithotripsy, HIV Special Unit and the Albion Street Centre.

#### Sydney Children's Hospital

High Street, Randwick 2031

Telephone (02) 9382 1111, Facsimile (02) 9382 1777

This is a paediatric tertiary referral hospital serving the whole of the state, one of two such children's hospitals in New South Wales. It comprises 190 beds located at the Randwick campus. There are also beds at the Prince Henry Hospital. It has close links through specialist and resident staff with other teaching and associated hospitals such as the Royal Hospital for Women and Royal North Shore, Liverpool and Wollongong Hospitals. It provides a complete range of paediatric services and has strong links with complimentary adult services at Prince Henry and Prince of Wales Hospitals. There are also strong links with community based child health services and local private practitioners.

There is a care-by-parent unit providing accommodation for parents and siblings with a Ronald McDonald House providing additional care-by-parent accommodation.

#### The Royal Hospital for Women

Barkett Street, Randwick 2031

Telephone (02) 9382 6111, Facsimile (02) 9382 6513

The Royal Hospital for Women is the University's principal teaching hospital in obstetrics and gynaecology. The Hospital was established by the Benevolent Society of NSW in 1866 and was New South Wales' first 'lying-in' hospital. The first medical undergraduate students came to the Royal in 1888. The Hospital relocated from Paddington to Randwick in 1997 to purpose-built facilities.

The Hospital is an incorporated facility of the South Eastern Sydney Area Health Service with 175 beds. There are approximately 4,000 births annually and over 6,500 gynaecological procedures. It is a specialist hospital for obstetrics and gynaecology and includes a department of neonatal paediatrics. The visiting medical staff numbers 51 and the resident medical staff 28.

The first baby health clinic in NSW, the forerunner of today's Early Childhood Health Centres, was established here in 1906. The State's first Antenatal Clinic was also started at the Royal Hospital for Women in 1912 and this was the third such clinic in the world. In 1931 the first Archeim 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.

The Hospital's Department of Medical Imaging has an international reputation for research and development of ultrasound technique and equipment in obstetrics.

The Gynaecological Oncology Centre, the first of its kind, was established in 1989 and has world wide standing for its work on ovarian cancer and gynaecological malignancy.

#### **The St George Hospital**

Gray Street, Kogarah 2217

Telephone (02) 9350 1111, Facsimile (02) 9350 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 January 1967.

The Hospital has recently undergone major redevelopment. Current bed capacity is 616. A 200 bed Private Hospital is located adjacent to the campus. The Hospital covers all major specialties including Radiotherapy.

The Hospital is staffed by 113 VMOs, 79 Staff Specialists and 217 RMOs including Registrars. The Clinical School includes teaching facilities, audiovisual equipment and a library.

#### **The St Vincent's Hospital**

Victoria Street, Darlinghurst 2010

Telephone (02) 9339 1111, Facsimile (02) 9332 4142

St Vincent's Hospital is the principal referral hospital and a pre-eminent teaching hospital of the University of New South Wales. It is operated in accordance with the philosophy, mission and values of the Sisters of Charity. The Hospital was founded in 1857 and moved to the present site in 1870.

Students of medicine have attended the hospital since 1891. From 1923 to 1969 the Hospital was a Clinical School for the University of Sydney. Since then it has been a Clinical School 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 with audio-visual equipment, common rooms, a library and a pathology museum.

The St Vincent's Hospital has 430 beds and is an acute general hospital with highly developed specialist units in adult medicine and surgery and diagnostic services. 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 Care Centre which provides an integrated approach to the management of malignancy and a comprehensive AIDS service and a specialist Palliative Care Institute (Secred Heart Hospice). 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 18 Chairs at the Hospital which include medicine,

surgery, cardiology, endocrinology, immunology, psychiatry and clinical pharmacology. The visiting medical staff numbers 100; there are 80 staff specialists and 150 resident medical officers.

St. Vincent's is part of the integrated campus of the Sisters of Charity which comprises St. Vincent's Private Hospital (228 beds), the Garvan Institute of Medical Research, the Victor Chang Cardiac Research Institute and St. Vincent's Clinic.

### **Associated Teaching Hospitals**

#### **Calvary Hospital Kogarah Inc**

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

Kogarah 2217

Telephone (02) 9587 8333, Facsimile (02) 9587 1421

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 80 inpatients and day-only admissions. The Hospital has a 20-bed Geriatric Rehabilitation Unit, full multidisciplinary team and therapy gymnasium. There is a Community Palliative Care Team offering holistic, family-orientated care to people with terminal illnesses within the South Eastern Sydney Area Health Service who choose to live at home. An Outpatient Pain Clinic is available at Calvary for these and other patients. Calvary staff offers a consultative service to nursing homes and private hospitals.

The Hospital staff is involved in teaching Palliative Care to undergraduate medical students and postgraduate nursing students. Training courses for volunteers in bereavement counselling and other aspects of palliative care are also offered.

Calvary Hospital is the provider of Community Rehabilitation and Geriatric Services (CRAGS) and specialises in helping the frail, elderly, and the disabled of the St George district. CRAGS is the Aged Care Assessment Team, and offers Dementia Support, Podiatry, Hydrotherapy, Mobility Training Clinics and Day Care services.

#### **The Langton Centre**

cnr Nobs and South Dowling Streets

Surry Hills 2010

Telephone (02) 9332 8777, Facsimile (02) 9332 28700

The Langton Centre is a specialist agency for the treatment of addictions. The Centre provides medicated detoxification, group and individual counselling, and medical and psychological interventions for dependent drug users. The Centre operates a methadone maintenance clinic and a needle and syringe exchange program. The Centre is active in a number of clinical research projects, including the investigation of new pharmacotherapy for opioid dependence, accelerated detoxification, and the role of psychiatric morbidity in addictive disorders. The Centre provides training for medical and nursing undergraduates, and registrar training.

The Langton Centre was fully refurbished in 1996 and is now linked administratively to Sydney Hospital. The Langton Centre inpatient beds are now located in Sydney Hospital, and this access to general hospital beds has provided the basis for new research projects into intensive methods of inpatient treatment for drug dependence.

#### **Sacred Heart Hospice**

170 Darlinghurst Road, Darlinghurst 2010  
Telephone (02) 9361 9444, Facsimile (02) 9361 9555

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, educational and bereavement 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 programs 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 Scottish Hospital**

2 Cooper Street, Paddington 2021  
Telephone (02) 9361 1111, Facsimile (02) 93601949

The Scottish Hospital is a 60 bed acute care private hospital situated in Paddington. The Hospital specialises in ENT surgery, plastic surgery, orthopaedic surgery, gynaecology surgery and rehabilitation medicine.

Facilities include three state-of-the-art operating theatres and a 5-bed intensive care unit. A modern IVF Unit is in existence as well as a modern 6-bed Day Surgery Unit.

#### **St Luke's Hospital Complex**

18 Roslyn Street  
Potts Point NSW 2011  
Telephone (02) 9356 0200, Facsimile: (02) 9357 2334

St Luke's Hospital Complex, a not-for-profit public benevolent institution provides acute hospital, nursing home and aged care services. St. Luke's (Private) Hospital is a 108 bed acute General Hospital providing comprehensive surgical, medical and rehabilitation care. Facilities include 4 operating theatres, 6 bed intensive care unit, a day surgery/procedures unit, endoscopy unit, telemetry/sleep studies unit, rehabilitation unit including hydrotherapy pool and diagnostic radiology service, including CT Scan. Services provided include Colo-rectal Surgery, Ear Nose & Throat Surgery, Gastroenterology, General Surgery, Gynaecology, Specialty Hand Surgery, Neurosurgery, Oral and Faciomaxillary Surgery, Plastic Surgery, Urology, General Medicine and Rehabilitation.

#### **St Vincent's Private Hospital**

406 Victoria Street, Darlinghurst 2010  
Telephone (02) 9332 7111, Facsimile (02) 9332 7234

The first St Vincent's Private Hospital opened in 1909 in association with the Sisters of Charity General Hospital

whose origins in Darlinghurst date back to 1838. The present St Vincent's Private Hospital was opened in 1976.

Consultants from most specialties are represented on its medical staff and the Hospital is equipped and staffed to provide tertiary referral services. The Hospital is an acute medical and surgical hospital of 230 beds with nine operating theatres including the Day Surgery Unit, an Intensive Care Unit and a Cardiac Catheter Laboratory.

The Hospital is accredited by the Australian Council on Health Care Standards.

The mission of St Vincent's Private Hospital, consistent with the values and health care philosophy of the Sisters of Charity, is to preserve a Catholic identity in health care and to provide excellent holistic services through value based team work, commitment, skill and technology.

#### **Sutherland Hospital Caringbah**

Kingsway, Caringbah 2229  
Telephone (02) 9540 7111, Facsimile (02) 9540 7197

The Sutherland Hospital Caringbah, founded in 1958, is an Associated Teaching Hospital of the University of New South Wales. It is a general medical, surgical and obstetric hospital, with various subspecialties. There are also psychiatric and rehabilitation, oncology and day surgery units, a 27 bed paediatric ward, and a busy emergency department.

The Hospital has 318 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 65 visiting medical staff, 14 staff specialists and 60 resident medical staff.

#### **Sydney Hospital and Sydney Eye Hospital**

Macquarie Street, Sydney 2000  
Telephone (02) 9382 7111, Facsimile (02) 9382 7320

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 and Sydney Eye Hospital has 113 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, 4 staff specialists and 45 resident medical officers.

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 Kirketon Road Centre in Kings Cross, the Langton Centre at Surrey Hills and the Bourke Street Drug and Alcohol Centre.

A Centre for Sexual Health, jointly administered by the University of Sydney and the University of New South Wales, was 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 has undergone major refurbishment including construction of a patient services block.

### **War Memorial Hospital Waverley**

125 Birrell Street, Waverley 2024

Telephone (02) 9387 1166, Facsimile (02) 9387 7018

War Memorial Hospital, Waverley is a Third Schedule Public Hospital under the governance of the Uniting Church in Australia, NSW Synod.

Opened in 1921 as a 19-bed private hospital under the management of the then Methodist Church, by 1969 the Hospital had grown to a 140-bed Third Schedule Hospital providing general medical, surgical and obstetric services. In 1984, after rationalisation, the Hospital commenced its primary role in geriatric rehabilitation and assessment services.

The Hospital now runs a 35-bed geriatric rehabilitation and assessment unit, a 20-place geriatric rehabilitation day hospital, a 20-bed short stay residential respite unit, a day care unit which provides services for both frail and demential clients and non-English speaking background groups, a podiatry outpatient services.

War Memorial Hospital also supports an aged care assessment team as well as a number of specialist clinics and services. Other service components of the Hospital include spouse accommodation for country patients and office accommodation for the Waverley Community Team.

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### **The South Western Sydney Area Health Service**

Telephone (02) 9828 5700, Facsimile (02) 9828 5955

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, obstetrics, pathology and microbiology, community paediatrics, anaesthetics and intensive care, community medicine, general practice, public health, health promotion, rehabilitation, geriatrics, drug and alcohol services, epidemiology and nursing research.

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 and Wingecarribee.

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 115,000 people and presently has a higher than

average birth rate compared with 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, Bowral, Camden, Campbelltown, Fairfield, Liverpool and Queen Victoria Memorial (Picton). There are two Third Schedule institutions, namely Carrington Centennial Nursing Home and Karitane Mothercraft Society.

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 900,000 people by 2011.

### **Teaching Hospitals**

#### **Liverpool Health Service**

Liverpool Hospital and Liverpool Community Health Service

Elizabeth Street, Liverpool 2170

Telephone (02) 9828 3000 Facsimile (02) 9828 6318

There has been a hospital in Liverpool since the early nineteenth century. The present hospital has 500 beds and provides services in medicine, surgery, intensive care, anaesthetics, emergency medicine, paediatrics, obstetrics and gynaecology, dermatology, psychiatry, geriatrics, rehabilitation, drug and alcohol, sexual health medicine, cancer therapy 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 and Hoxton Park Community Health Services and South Western Sydney Public Health Unit. A Division of General Practice has been formed by local GPs. 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 redevelopment is under way and the Hospital will eventually have 690 beds.

#### **Bankstown-Lidcombe Health Service**

Bankstown-Lidcombe Hospital and Bankstown Community Health Service

Eldridge Road, Bankstown 2200

Telephone: (02) 9722 8000 Facsimile: (02) 9722 8570

The Bankstown Health Service comprises the Bankstown-Lidcombe Hospital and Community Health Service. Bankstown-Lidcombe Hospital is a 454 bed Teaching Hospital of the University of New South Wales. The Hospital provides for a catchment area of approximately 180,000 in population.

The Hospital provides a full range of medical and diagnostic services. 1996 heralded the commissioning of a new state-of-the-art hospital. Services include: subspecialties based medicine, surgery, intensive care, obstetrics and gynaecology, paediatrics, anaesthetics, emergency medicine, mental health as well as a strong emphasis on aged care (80 beds for geriatric medicine, rehabilitation, aged psychiatry). In January 1997, an Academic Chair in Aged Care and Rehabilitation was established. The Professor of Aged Care and Rehabilitation is also the Director of the Service. The Hospital also boasts a strong Gastroenterology Service. An Academic Chair in Gastroenterology will be established in recognition of the high level of this Service. A full range of imaging and clinical measurement modalities is provided. Substantial teaching facilities exist in the new hospital.

The overall objective is the integration of the hospital with community services to provide an optimal, self sufficient, fully integrated health service to the Bankstown Local Government Area.

The Bankstown Health Service is committed towards high standards of training and education amidst a relaxed and friendly atmosphere. Accredited training is available in the majority of specialties for both undergraduates and postgraduates. A strong Division of General Practice is operated by local GPs and is well integrated into education programs and service provision.

#### **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, paediatric, 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 over 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 care as the population expands. The Hospital recently became the first public hospital in Australia to be awarded the prestigious ISO 9002 certification.

Campbelltown Hospital has 210 beds providing general medical and surgical, obstetrics and gynaecology, orthopaedic, paediatric, anaesthetic and mental health services. This includes an 8 bed intensive care/coronary care unit, a very busy 30 bed paediatric unit with a 15 bed Level II special care nursery. A very busy emergency department operates 24 hours per day and is staffed by a Specialist Director and Career Medical Officers. 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 5600 procedures a year.

Medical students from UNSW rotate through the hospital for their obstetric, paediatric and psychiatry terms and Department of Emergency Medicine/Critical Care.

Campbelltown also offers a 20 bed inpatient psychiatric facility in a recently expanded on-site facility (Waratah House). As part of the Campbelltown Health Service, the Hospital is involved in the co-ordination and development of community health services in Campbelltown.

Plans are underway to expand the hospital to 350 beds by 2001.

#### **The Fairfield Health Service**

Fairfield Hospital and Fairfield Community Health Service

Cnr Polding Street and Prairievale Road

Wetherill Park 2164

Telephone (02) 9616 8111, Facsimile (02) 9616 8240

Fairfield Hospital is a 190 bed facility and provides services in general medicine, general surgery, maternity and paediatrics. Located on the Fairfield Hospital Campus are also the following Area services: General Practice Unit, Interpreter Service, Ethnic Obstetric Liaison Service.

The Fairfield Hospital opened in November 1988 and provides health services for the Fairfield local government area community. In addition, the Hospital has a Level II Special Care Nursery, a 24 hour Accident & Emergency Service, a 10 bed ICU and CCU and has in place a Domiciliary Midwifery Program for well mothers and babies.

The South Western Sydney Area's General Practice Unit is located at Fairfield Hospital. The Unit commenced in 1991 and is run jointly with the University of New South Wales 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 of education for existing and future general practitioners in the area and liaises between the Hospital and general practice.

Fairfield Health Service has commenced a Community Paediatric Service with the appointment of a Staff Specialist Community Paediatrician. Appointments of Community Nursing Staff are being made to assist the Paediatricians to provide a comprehensive service in the Area.

Comprehensive Health Services are provided from three Centres located in Mitchell Street Carramar, Levuka Street Cabramatta and in Prairiewood on the Hospital campus. Youth primary health care services for residents of Fairfield and Liverpool are provided by FLYHT based at Bonnyrigg.

The relocation of the Karitane Mothercraft Society to Mitchell Street, Fairfield (Old Fairfield Hospital site) occurred in April 1994. Construction of the 72 bed Braeside Hospital providing services in Rehabilitation, Psychogeriatrics and Palliative Care on the grounds of Fairfield Hospital was completed in 1996.

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## Corrections Health Service

### Long Bay Correctional Centre

Anzac Parade, Little Bay, 2036

Telephone (02) 9289 2977, Facsimile (02) 9311 3005

Corrections Health Service (CHS) is a Statutory Health Corporation constituted under the New South Wales Health Services Act 1997. CHS provides and coordinates a comprehensive range of health services for people in custody within the NSW Correctional System. The mission of CHS is: "To improve the health of people within the New South Wales correctional system by providing quality health care to the standard available in the community". Major clinical programs include General Practice and Primary Health Care, General Medicine / Surgery, Mental Health Programs, Drug and Alcohol Services, Population Health, Indigenous People's Health Services, Dental, Imaging and Laboratory Services.

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## The Illawarra Area Health Service

Telephone (042) 755 111, Facsimile (042) 761 447

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 327,000 which comprises 5.4% of the total New South Wales population.

The Illawarra Area Health Service is a network of integrated community and hospital services which provide both public and personal health care.

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

### Wollongong and Port Kembla Hospitals

The Wollongong and Port Kembla Hospitals are significant components in the establishment and development of a major teaching Area Health Service for the Illawarra. Currently, the Wollongong and Port Kembla Hospitals are Associated Teaching Campuses of the University of New South Wales.

A newly built Clinical Services Block at the Wollongong Campus will be fully commissioned in 1998 and will provide state-of-the-art critical care including a 20 bed ICU and 8 Operating Theatres. The Wollongong and Port Kembla Hospitals provide complimentary services with all acute services located at the Wollongong Hospital. The Port Kembla Hospital comprises 52 beds for Rehabilitation and Psychiatry Services. The Wollongong Hospital with 240 beds provides a full range of tertiary services including medical imaging; maternal and paediatric services; surgical

services including neurosurgery and medical services including a full range of medical subspecialties.

The Illawarra Area Health Service also provides a comprehensive psychiatry service for both inpatients and the community. General practitioners throughout the Division of General Practice also have an active role in the integration of community and hospital services and provide excellent training opportunities in general practice.

### Shellharbour Hospital

The Shellharbour Hospital has 150 beds (5 of which are high dependency). The Hospital provides emergency, medical, surgical, psychiatric, obstetric and psychiatric services. The GP Training Unit is also based at this Hospital.

The Illawarra Area Health Service provides comprehensive mental health care, with psychiatric care consolidated at Shellharbour Hospital which has 34 acute inpatient beds. Lakeview House, the psychiatric rehabilitation facility for the Area, also located at Shellharbour Hospital has 20 inpatient beds and provides care for 20 day patients.

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## The Mid North Coast Health Service – Central Sector

### Port Macquarie Base Hospital

Wrights Road, Port Macquarie 2444

Telephone (065) 81 2000, Facsimile (065) 80 1110

Port Macquarie Base Hospital is the first privately operated and owned hospital in Australia, built specifically to meet the requirements of a twenty year Services Agreement with the NSW Department of Health for the admission and treatment of public patients. The Agreement sets objective standards for the provision of high quality health care including specific quality standards.

This 161-bed Hospital opened its doors to the public in November 1994 and is a comprehensive referral hospital for both public and private patients of Port Macquarie and surrounding areas. Port Macquarie is one of the largest health centres of the region boasting some 45 specialist medical staff. The Hospital provides a 24-hour accident and emergency service; general surgery; orthopaedic surgery; vascular surgery; gynaecology; obstetrics; urology; ear, nose and throat surgery; renal medicine; oncology; cardiology; thoracic medicine; general medicine; paediatric and neo-natal medicine; psychiatry and emergency medicine.

Port Macquarie Base Hospital in the short time it has been opened has received several awards and commendations for its clinical excellence, and also for its excellence in service delivery and quality patient care. In addition to achieving Associated Teaching Hospital status with the University of New South Wales, University of Sydney and the University of Newcastle, the Hospital has been accredited by the Medical Association/Colleges of Physicians, Surgeons, Obstetrics and Gynaecology, Orthopaedics and Psychiatry.

The Base Hospital is a significant teaching hospital boasting registrars in medical, surgical and orthopaedic, obstetrics and gynaecology with a number of medical officers and medical students.

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## **The Greater Murray Health Service**

### **Wagga Wagga Base Hospital**

PO Box159, Wagga Wagga NSW 2650

Telephone (069) 386 666 Facsimile (069) 218 243

### **Associated Teaching Hospital**

Wagga Wagga Base Hospital is a 220-bed acute regional hospital and has specialists in most major disciplines (medicine, paediatrics, surgery, orthopaedics, anaesthetics, O&G, ENT, ophthalmology, geriatrics, rehabilitation, psychiatry and emergency medicine). The Emergency Department has 3 staff specialists and has a major trauma role.

The Base Hospital is a significant teaching hospital boasting registrars in medical, surgical, orthopaedics, anaesthetics, obstetrics and gynaecology with a number of resident medical officers and medical students and is a primary allocation centre.

Located midway between Sydney and Melbourne, the City of Wagga Wagga has a population of 57,000 and provides an excellent country lifestyle and all the social recreational and business amenities of a major rural city.

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## **Faculty Units, Centres and Affiliated Institutes**

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### **The Ray Williams Biomedical Mass Spectrometry Facility**

The Biomedical Mass Spectrometry Unit (BMSU) is one of five UNSW beachhead facilities providing research support to investigators on this campus and in the affiliated teaching hospitals. The Facility is equipped to world standards and is expert in the characterisation and quantitation of trace amounts of material in biological tissues and fluids. The Ray Williams Laboratory is active in several research areas including: studies of the mechanisms of ageing; oxidative damage; pheochromocytoma diagnosis, and the role of neurotoxins in neurodegenerative disease.

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## **The Centre for Public Health**

The Centre for Public Health was established in 1988 to bring together multi-disciplinary resources to conduct educational programs and undertake research in public health.

The Centre is comprised of the Schools of Community Medicine, Medical Education and Health Services Management and has strong links with other academic and service units such as the National Centre in HIV Epidemiology and Clinical Research, the National Drug and Alcohol Research Centre and the various Area Health Services affiliated with UNSW. Its affiliation with the WHO Regional Training Centre for Health Development provides an emphasis on international health development.

The Centre for Public Health at UNSW and the Department of Public Health and Community Medicine at the University of Sydney are partners in the PHERP-funded Sydney Public Health Consortium. This arrangement is designed to enhance the opportunities for study and research for students and faculty in both universities. Currently students enrolled at UNSW are permitted to undertake up to 25% of their course work at the University of Sydney.

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## **The Centre for Thrombosis and Vascular Research**

The Centre for Thrombosis and Vascular Research was formed in 1992 with the purpose of bringing together scientists and physicians based in the Prince Henry/Prince of Wales Hospitals Group, whose research and clinical practice was focused on the causation and treatment of the blockage of blood vessels. The majority of heart attacks, strokes and gangrene of the legs are brought about by blockage of the arteries supplying respectively, the heart muscle, the brain and the lower limbs. Despite real advances these processes still account for a massive cost in premature death and suffering.

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## **Children's Cancer Research Institute – Sydney Children's Hospital**

The Children's Cancer Research Institute has a staff of 30 full time scientists (including postgraduate students, technical and support staff) undertaking laboratory research on malignant disease in children. The Institute was established in 1984 and occupies a four storey laboratory complex at the southern end of the Sydney Children's Hospital. The staff of the Institute work in close collaboration with members of the Department of Paediatric Haematology/Oncology in the Hospital. Research work is organised in four programs: cellular pharmacology, experimental diagnostics and therapeutics, molecular carcinogenesis and bone marrow transplantation. The focus

of the Institute involves investigation into the nature, origin, cause and treatment of childhood cancers (particularly leukaemia and neuroblastoma) making this facility the only one of its type in Australia.

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### **Garvan Institute of Medical Research – St Vincent's Hospital**

The Garvan Institute of Medical Research has a staff of 200 including 45 PhD and MD scholars. The Institute is structured into four major research programs – bone and mineral, cancer, neurobiology and metabolism – which are funded through a Centre grant from the National Health and Medical Research Council. Located on the St Vincent's Hospital Campus, the Garvan Institute focuses on the molecular basis of health and disease, integrating a range of basic laboratory based research approaches together with extensive clinical research.

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### **Medical Illustration Unit**

Located in the Edmund Blacket Building at the Prince of Wales Hospital, the Medical Illustration Unit (MIU) provides centralised photography, graphics and digital imaging services to the Faculty of Medicine and its teaching hospitals.

The Unit incorporates well-equipped facilities for clinical, scientific and general photography in the studio or location, maintains a display preparation area, and operates a high-resolution computer slide imaging service.

MIU's eight staff annually produce around 60,000 slides and prints for lectures and publications, 1,000 items of finished artwork and 300 scientific posters, thereby supporting the teaching, research and patient care commitments of the Faculty and its hospitals.

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### **National Centre in HIV Epidemiology and Clinical Research**

The Centre was established in 1986 to provide national leadership in epidemiological and clinical research, surveillance and clinical trials related to HIV and AIDS. The Epidemiology Unit is the cornerstone of a national surveillance system monitoring the spread of HIV in Australia, while the Clinical Trials Unit coordinates research on new therapies. The Centre also carries out research on the transmission and natural history of HIV infection. As an extension of its role in HIV, the Centre has increased its involvement in the surveillance of other infectious diseases transmitted by the same routes as HIV, such as sexually transmitted diseases and Hepatitis B and C. Another significant area of expansion for the Centre has been the provision of research expertise and training to support countries of the Asia-Pacific region in the fight against HIV.

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### **National Perinatal Statistics Unit (Australian Institute of Health and Welfare)**

The National Perinatal Statistics Unit is a collaborating unit of the Australian Institute of Health and Welfare within the Faculty of Medicine of the University of New South Wales. Located on the Prince of Wales Hospital Campus, the Unit is linked with the School of Paediatrics and other groups in the Faculty. The Unit collaborates with State and Territory perinatal groups and various professional groups in developing national perinatal data systems. The Unit's objectives are to monitor and interpret national perinatal mortality and morbidity, to provide a limited perinatal epidemiology service; and to conduct epidemiological research.

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### **National Drug and Alcohol Research Centre – Prince of Wales Hospital**

The National Drug and Alcohol Research Centre was established as a Centre of Excellence at the University of New South Wales in May, 1986. It is funded by the Commonwealth Department of Health and Family Services.

The overall mission of NDARC is to contribute towards the minimisation of the harmful consequences of drug use in Australia by increasing, through research and related activities, the effectiveness of the Australian treatment response to drug-related problems.

It undertakes this work in collaboration with the Schools of Community Medicine and Psychology in the University and with collaborating centres in other States and Territories.

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### **Prince of Wales Medical Research Institute – Prince of Wales Hospital**

The Prince of Wales Medical Research Institute is an independent institute affiliated with the University. Since its opening in 1993, it has grown to become the largest aggregate of research nationally on the functions and disorders of the brain and nervous system. It has a staff of over 70, including six at professor or associate professor level, and attracts almost \$3m p.a. in peer-reviewed funding. Major lines of research include human sensation, balance and movement; autonomic nervous system; neuropathology; and clinical neurophysiology.

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### **Skin and Cancer Foundation**

The Skin and Cancer Foundation was established in 1978 and is affiliated with St. Vincent's Hospital. The Foundation has four Dermatology registrars and a research fellow as well as undergraduate students who attend the

dermatology clinics. A broad range of clinics are devoted to the diagnosis and treatment of skin cancer, psoriasis, contact dermatitis, vitiligo and pigmented skin lesions. There is a large dermatopathology service. Clinical trials as well as research in occupational dermatoses and histopathology are pursued. The Foundation provides Sunscreen Testing and Irritancy Testing for new products. The Foundation is active in community education relevant to skin disease. It has also established a second clinical and teaching facility at Westmead.

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### Victor Chang Cardiac Research Institute

The VCCRI was established in 1994 to honour the vision and memory of the late Dr Victor Chang. It is a member of the St Vincent's Hospital Campus, and affiliated with the University of New South Wales. It aims to conduct the highest quality fundamental research into cardiovascular diseases, with a major emphasis on the prevention, diagnosis and treatment of heart muscle diseases. It currently has active research programs in molecular cardiology relating to the mechanisms of cardiac hypertrophy and signal transduction; the genetics of cardiovascular diseases; cardiac arrhythmias and mechanics; transplantation biology; vascular bioengineering, and the pathophysiology of cardiac ischaemia and coronary restenosis.

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### World Health Organization Regional Training Centre For Health Development

The World Health Organization Regional Training Centre for Health Development within the School of Medical Education is constituted through a formal tripartite agreement between the World Health Organization, the Australian government and the University of New South Wales.

The primary emphasis of the Centre's work is on developing and strengthening the capacity of healthcare institutions to provide improved health services particularly primary health care services in developing countries. It aims to cultivate educational leadership for health promotion and development, to improve teaching and educational planning, to promote staff development and in-service training to contribute to workforce planning to improve management of human resources in health and to foster community orientated healthcare and improve community based education programs in the health professions.

The Centre and the School contribute to the promotion of national and international health through the educational development of the health professions. Activities include postgraduate academic programs at masters and doctoral levels, short courses and special training programs, workshops and seminars both at the school and in the field in health professions education, clinical education and

public health as well as publication of learning resources and materials.

The Centre supports the development of educational institutions, centres and programs through long term twinning arrangements. These approaches include training of faculty, support in development of programs and resource materials, placement of fellows and exchange of staff to enable collaborative research and development.

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### Computing at UNSW

The Division of Information Services (DIS) encompasses information technology and the University Library at UNSW. All students are given an e-mail address and a modem access service is available. A help desk is available on 9385 1333.

Specific University information which is frequently updated is available on the World Wide Web (WWW) in the UNSW home page at <http://www.unsw.edu.au> which has an index to its contents which includes URLs <http://www.acsu.unsw.edu.au> and <http://www.comms.unsw.edu.au> and <http://www.misu.unsw.edu.au> and <http://www.med.unsw.edu.au>. This information may be accessed from any computer laboratory with access to the World Wide Web.

The information provided on the WWW includes more details about DIS information technology units and gives information about the Medical Faculty.

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### The Biomedical Library

The Biomedical Library provides library services for staff and students from the Faculty of Medicine and the Faculty of Life Sciences. It is closely associated with the libraries of the teaching hospitals of the University and with the Curran Foundation Library at the Garvan Institute of Medical Research.

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

All Biomedical Library material has an MB or MBQ prefix. Serials are shelved on level 2 and 3, in alphabetical order by title. (Details about the Biomedical Library books, serials, multimedia and audiovisual material can be found in the Library catalogue.)

In addition, the Biomedical Library provides web access (see web address below) to a wide range of biomedical databases, full text electronic journals, and the best medical and life science web resources.

Professional staff are available at the Information Desk on Level 2 to provide reference services and to assist in the use of the catalogues, the internet, and biomedical

databases. Classes are also provided which ensure students and academic staff can make best use of these information resources.

The Library provides special services for external students and remote users. Details of these services are listed on the Library's home page.

(<http://www.library.unsw.edu.au/~biomed/biomed.html>)

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## The University of New South Wales Medical Society (Medsoc)

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

There are a number of annual social events, including the Year 1 Orientation Camp, a combined harbour cruise, hospital and year parties, the Medsoc Talent Quest, the Med Ball, and speaker nights including Women in Medicine and the Spring Symposium.

A quarterly newsletter *Idioglossia* and an annual magazine are produced, to which students and staff are encouraged to submit written articles. The Society also maintains a webpage which keeps members up to date on events, and can be found at <http://www.med.unsw.edu.au/medsoc/>

The Society maintains communication with all levels of Faculty through the President, Vice-Presidents and Year Representatives, while the other Medsoc members hold

positions in University government. These officers together with the Secretary, Treasurer, Bookshop Managers and other representatives, constitute the Society Council which is elected annually in October.

All students are encouraged to participate in the Society's activities and to attend the Medsoc meetings which are held on the first Wednesday of every month in the Student Common Room, Blacket Building, Prince of Wales Hospital. Enquiries should be addressed to the Secretary of the Medical Society, c/- Medsoc Bookshop, Old Morgue Building, Prince of Wales Hospital, Randwick NSW 2031.

The Medsoc Shop is an important service provided by the Society. Textbooks, white coats and diagnostic instruments may be bought cheaply, usually around 20% below retail prices. A nominal Medsoc Bookshop joining fee is payable. The Medsoc Bookshop is located in the Old Morgue Building, Barker Street Entrance, Prince of Wales Hospital and also on the World Wide Web at <http://www.med.unsw.edu.au/medsocbookshop>. Enquiries may be made by phone on (02) 9382 2121 or by fax on (02) 9398 2343.

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## Undergraduate Rural Health Society

The rural health club has been established within the Faculty to provide:

- undergraduate students with information about career options and encourage their choice of a career in rural Australia;
- undergraduate students with information concerning issues in the provision of health services in rural Australia; and
- practical experience of working and living in rural areas through organised weekend field trips.

The Society may be contacted through the administrator, Rural Health Unit, School of Community Medicine.





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# Undergraduate Study

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## 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 completed or partially completed tertiary studies. Such applicants are assessed on the basis of their tertiary results in conjunction with their matriculation 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.

Applicants who have completed a Year 12 qualification for the third or subsequent time will have a 5% penalty imposed on the most recent attempt. Applicants seeking entry on the basis of a Year 12 qualification obtained after having been admitted to a tertiary institution and having recorded a result will also have a 5% penalty imposed on the Year 12 UAI or equivalent.

### 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, Sydney NSW 2052, 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, and the 2 Unit English subject, Contemporary English, are not acceptable.) To be eligible for selection into the Faculty, students must obtain the required course

prerequisite scores in the HSC (or equivalent) in Mathematics, English and Science/Chemistry subjects.

The following prerequisite requirements were current at the time of publication of this Handbook.

#### Course prerequisites for 1999

##### HSC Mathematics

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

##### HSC English

2U General (80-100) or,  
2U Related (65-100) or,  
3U (25-50)

##### HSC Science

2U (Chemistry) (67-100) or,  
3U (90-150) or,  
4U (1-200)

Prospective students are advised that while it is not a requirement, they should include Physics in their high school program as 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 upon enrolment students have an adequate command of English language and communication skills. Those students who feel they may lack skills in this area should consult with their lecturers or tutors, or staff of the Office of the Dean, 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 and may be required to complete satisfactorily an additional remedial English program before being deemed as having passed the year.

## Admission of Aboriginal Students

The Faculty may admit suitably qualified Aboriginal and Torres Strait Islander people outside any quota restrictions. Further information regarding the admission criteria may be obtained from the Aboriginal Education Program on (02) 9385 3805 or (02) 9398 2611.

## 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 meet all Faculty course prerequisites. Further information may be obtained from the Access Scheme Co-ordinator at the University on (02) 9385 5434.

## Rural Student Entry Scheme

The Faculty may admit up to six students from rural New South Wales who meet a number of criteria relating to their education and residence. Further information may be obtained from the Rural Health Unit, School of Community Medicine at the University, tel (02) 9385 3250

## Admission of Refugee Medical Practitioners

A special one year scheme exists for the admission of refugee medical practitioners into Year 4 only of the Medicine undergraduate course. For further information regarding this scheme, contact the Office of the Dean on 9385 2457. However this scheme will not operate for 1999.

## Application Procedures

Applications for entry into the Faculty should be directed to the Universities Admissions Centre, Locked Bag 500, Lidcombe, NSW 2141, telephone (02) 9330 7200. The closing date for application is generally 30 September of each year but may be extended on payment of a late fee.

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# 3801

## Medicine Course

### BSc(Med) MB BS

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

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 six year course, and is usually obtained by using the weighted average mark for each year, calculated by weighting the subjects according to hours of teaching.

On completion of Year 3 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 the 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) Honours. For details see the course description for 3831.

## 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 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 3, 4 and 6 such additional assessment is usually undertaken in December and in Years 1 and 2 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 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.

## Special Consideration

Students who have been prevented from taking assessments or have been disadvantaged during assessments are required to apply at the Student Centre for special consideration. Submissions of details of any sickness or disadvantage must be in accordance with the University rules on special consideration as printed in the 'UNSW Student Guide'. Special consideration requests will normally not be considered if more than seven days have elapsed since the final examination in the affected subject or subjects.

## Show Cause

The Faculty's Assessment Committee requires all students to show cause why they should be allowed to re-enrol if their progress will result in their taking more than one year longer than the normal length of time for their course. Such additional time can be due to failure, leave or a combination of both failure and leave.

## Advice to Students on Computing Requirements

Students are advised that satisfactory completion of the undergraduate medical courses (3801, 3821 or 3840) can be achieved without the requirement to purchase a personal computer.

## 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

The Faculty's policy on the immunisation of medical students is as follows:

All students should be aware of their immunity or lack of immunity to common infectious diseases which they will encounter during clinical training and later in practice. Students without a history of past illness or immunisation will be at risk of acquiring certain infections and subsequently at risk of transmitting those infections to patients.

### All Students

In the absence of a reliable history of immunity, students are advised to be immunised against the following infections: rubella, measles, mumps, hepatitis B (HBV) and tuberculosis (TB). A personal history of mumps, HBV and TB or a history of past immunisation against rubella, measles, mumps and HBV are reliable in predicting immunity. It is not necessary to have pre-immunisation antibody testing performed if you are uncertain of your immunity. Skin testing (Mantoux test) for TB should be performed before immunisation for TB.

It is also advisable that students are aware of their immune status to chickenpox (varicella). A blood test for antibodies can be performed if there is not a personal history of chickenpox.

If students require any of the above immunisations, or are uncertain of their immune status, they should see their local general practitioner or, if preferred, may attend the UNSW Health Service. The UNSW Health Service is located on the ground floor of the East Wing of the Quadrangle Building.

The Office of the Dean can provide students with information on the names and locations of medically qualified staff of the Faculty with appropriate expertise in infectious diseases who have agreed to be available to offer confidential advice on these matters, but students may prefer to consult their own medical practitioner or other medical adviser.

It is strongly recommended that documentation of past illnesses, immunisation history and results of blood test be kept for future reference. A form is available from the Office of the Dean for this purpose. It is advisable that the information on this form be verified by students' own doctors or the UNSW Health Service. Students who object to being tested or immunised should discuss their objections with their doctor.

#### 4th, 5th and 6th Year Students

The Medical Board of NSW has recently determined that while mandatory testing for HIV and HBV is not required, any medical practitioner or student has a professional responsibility to take appropriate steps to know that his/her HIV and HBV status is negative before undertaking an 'exposure-prone procedure'.

Such procedures are characterised by the potential for direct contact between the skin of the health care worker and sharp surgical instruments, needles or sharp tissues (spicules of bone or teeth) in body cavities or in poorly visualised or confined body sites (including the mouth).

Students are usually required to undertake such procedures as part of their undergraduate course. However, students who do not know their HIV/HBV status or know that they are infected must refrain from participating. Since testing is not mandatory, no reason need be given for declining nor could any reason be inferred from a declination.

Matters relating to infectious diseases are constantly under review and the Faculty policy may be amended as the policies of the NSW Health Department or Medical Board or other relevant government bodies change.

Students who are infected with any blood-borne infections (ie. HIV, HBV or Hepatitis C) should seek advice on their future professional development. A medical practitioner infected with HIV and/or HBV who is not impaired may be able to continue to practise medicine that does not involve exposure-prone procedures.

**Medical practitioners who knowingly do not take appropriate measures to reduce their risk of transmitting infections may be liable to charges of professional misconduct if they are responsible for transmitting an infection. Students and medical practitioners in this position may be vulnerable to legal action.**

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## Course Details

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### Year 1

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

		HPW	
		S1	S2
1. ANAT1006	Anatomy 1	5	7
2. BIOC1319	Biochemistry for Medical Students	6	6
3. MFAC1001	Introductory Clinical and Behavioural Studies	4	4
4. PHPH1004	Biology for Medical Students	4	-
5. General Education electives		4	4
<b>Total</b>		<b>23</b>	<b>21</b>

### Assessment

Biology is taught only 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 in subjects which extend over the whole year 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 staff from the Office of the Dean and/or an appropriate member of the academic staff, before proceeding to Session 2. Such students may discontinue without failure at that time.

### 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

CP30 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 per week include: one 3-hour practical/tutorial class of Anatomy, with an additional 2-hour class of histology in Session 2 only, together with 1-2 hours of lectures in Session 1 and 2 hours of lectures in Session 2.

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:** In addition to the end of year 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:* A/Prof K Barrow

CP30 F HPW 6

**Objectives:** To obtain sufficient understanding of chemistry and biochemistry to recognise 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.

**Brief Description:** 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-year and end of year examination, there is continuous assessment throughout the year.

### MFAC1001

#### Introductory Clinical and Behavioural Studies

*Staff Contacts:* Ms S Beecher and Dr N Kelk

CP20 F HPW4

**Objectives:** To enable students to gain a better understanding of themselves and other people as a basis for the respectful and considerate treatment of patients; to stress the importance of seeing patients as people; to develop basic interviewing skills; to heighten cultural awareness; to develop understanding of the experience of loss; to gain experience in and understanding of the group process in preparation for working in teams; to impart to students an understanding of illness in terms of a biopsychosocial model; to provide an introduction to human development through the life cycle, and health problems of people at different stages; to develop in the student an awareness of the different family, socioeconomic, and ethnic backgrounds of people in Australian society and of the relevance of these backgrounds to the physical and emotional states of patients.

**Brief Description:** Students attend a three hour small group tutorial each week in Sessions 1 and 2 and 21 two hour lectures spread throughout Session 1 and Session 2. In the tutorial groups, students learn interpersonal

communication skills, group dynamics, self awareness and cultural sensitivity through participatory exercises. Students take the initiative in preparing and presenting group projects.

Lecture themes include: the individual experience of health and illness in terms of a biopsychosocial model; introductory human development through the life cycle (childhood, adolescence, adulthood and old age); the particular problems of disadvantaged cultural groups (e.g. Aborigines, recent migrants) and communication theory; theory of groups; history of medical science; and alternative medicine. The lectures are supported by relevant films and by community visits, activities and discussions in the tutorial groups.

**Assessment:** Two major assignments, the first assessing basic interpersonal communication skills, and the second the ability to take a broad social-psychological history. Participation in tutorials and a group project is assessed. There is an examination at the end of Session 2 on the material covered in the lectures. Students must pass the examination and the communication skills assignment as well as the whole subject to progress to Year 2.

### PHPH1004

#### Biology for Medical Students

*Staff Contact:* Dr S Head

CP10 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 a practical examination and a theory examination at the end of Session 1.

## 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 which was studied in Year 1, is continued.

		HPW	
		S1	S2
1. ANAT2007	Anatomy 2	7	7
2. BIOC2329	Medical Biochemistry and Genetics	4.5	4.5
3. MDSG2001	Clinical Studies 2	2	2

4. PHPH2018 Medical Physiology 1	8	8
5. PSCY2101 Human Behaviour	3	3
<b>Total</b>	24.5	24.5

## 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 enrolment.

## Year 2 Subject Descriptions

For further information regarding these subjects contact the subject authorities.

### ANAT2007

#### Anatomy 2

*Staff Contact: Dr E Tancred*

CP35 F 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 subject consists of four subsections, 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 taught in Session 2. Neuroanatomy covers the basic 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 are separate examinations in Histology and in Embryology respectively. Students must pass each component to pass the whole subject.

### BIOC2329

#### Medical Biochemistry and Genetics

*Staff Contact: A/Prof P Schofield*

CP20 F 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 subject to the study of medicine.

**Assessment:** Examinations are held mid-year and end of year, and include the contents of both lectures and audiovisuals.

### MDSG2001

#### Clinical Studies 2

*Staff Contact: Prof J Dwyer*

CP10 F 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 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 are familiar with the basic requirements of a 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. In Session 2, students are required to submit a case study. 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: Assoc.Prof.R.Holland*

CP40 F HPW8

**Objectives:** To gain knowledge and understanding of the function of the cellular elements of the body and the function of certain 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 cells and excitable tissues, circulation, respiration, kidney and body fluids, gastro-intestinal tract and temperature regulation. Attention is paid to the principles of physics and statistics 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 Uté Vollmer-Conna*

CP15 F HPW3

**Objectives:** To provide students with key concepts in the five main topic areas and demonstrate the practical application of these concepts in medical practice. The five main topic areas are: research methods in behavioural sciences, psychology in relation to medicine, sociology in relation to medicine, bioethics, and human sexuality. Students are encouraged to develop an understanding of human behaviour as the result of complex interactions between multiple factors, so that they are better able to appreciate and respect their patients and colleagues as persons. Taught over both sessions. Didactic material and some case material is presented in lectures and the tutorial program is structured to consolidate this information. Emphasis is placed on developing skills in clear professional communication, with feedback on written assignments and tutorial presentations. Tutorial exercises encourage the development of supportive and co-operative working relationships among students and provide an introduction to interviewing skills. Specific topics covered include: risk behaviours; anxiety; stigma; social class and health; the sexual response and how it changes across the life-span; and a range of bioethical topics including human and animal experimentation, euthanasia, the doctor and the state.

A handbook for the subject is produced each session and may be borrowed from the Biomedical Library Closed Reserve or purchased from the School of Psychiatry.

**Assessment:** In Session 1, assessment consists of two written examinations, a tutorial assignment, a tutorial presentation and a class test. 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 the 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 subject on the response to infectious diseases, and with the Pathology subject 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.

	HPW	
	S1	S2
1. CMED3001 Medical Ethics and Health Law		1.5
2. MDSG3001 Clinical Studies 3	4	4
3. MICR3228 Microbiology for Medical Students	4	4
4. PATH3101 Pathology	6	4
5. PHPH3014 Medical Physiology 2	4	4
6. PHPH3055 Medical Pharmacology	4.5	4.5
<b>Total</b>	22.5	22.0

## 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.

### Year 3 Subject Descriptions

For further information regarding these subjects contact the subject authorities.

#### CMED3001

##### Medical Ethics and Health Law

*Staff Contact: A/Prof P McNeill*  
CP10 S2 HPW1.5

Medical Ethics and Health Law builds on medical ethics presented in 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 subject introduces students to medical practitioners' responsibilities in law including the duty of care, obligations to maintain privacy and confidentiality, and the legal basis of registration and de-registration of medical practitioners.

Principles of ethics and rules of law are considered in relation to specific issues including transplantation, predictive testing, withdrawal of treatment, and the rationing of limited health care resources. Tutorials are based on material covered in lectures and seek to expand students understanding of ethics and law through discussion, structured debates and tutorial exercises.

The overall aim of the subject is that students learn to demonstrate and apply an understanding of ethics and law as a part of their commitment to social responsibility and considerate and appropriate treatment of patients (and others) 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%).

#### MSG3001

##### Clinical Studies 3

*Staff Contact: Prof J Dwyer*  
CP20 F 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 builds on the experience obtained in Year 2 and introduces 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 subject are:

1. 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 complements related discussions in physiology, pathology, pharmacology and microbiology. Where possible, the information supplied in Clinical Studies 3 is integrated with related material being presented by the other disciplines.

2. Students spend two afternoons a week at a teaching hospital for one surgical and one 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 both orally and in writing. 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.

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), an integrated exam (including material from Anatomy, Biochemistry, Microbiology, Pathology, Physiology, and Pharmacology as well as Clinical Studies), objective structured clinical examination (OSCE) and an assessment of communication skills. Students will be required to pass each of these four components of the end of year examination.

#### MICR3228

##### Microbiology for Medical Students

*Staff Contact: A/Prof S Hazell*  
CP20 F HPW4

*Objectives:* The overall objective is for students to understand the nature of the interactions between parasites and their human hosts, and the fundamentals of human immunology. Early lectures and tutorials are concerned with the basics of the scientific discipline of immunology. In order to achieve the microbiology requirement, students will 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 disease and where appropriate, integrate these objectives with a knowledge of pathology and immunology. Emphasis is given to the nature of the response of pathogens 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 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 subject 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 mid-year and final examination as well as a major assignment and practical examination.

### **PATH3101**

#### **Pathology**

*Staff Contact: Prof D Wakefield*

CP25 S1 HPW6 S2 HPW4

The discipline of Pathology forms a continuous stream of teaching of the pathogenesis of disease throughout the 3rd, 4th, 5th and 6th years of the medical curriculum. In Year 3, the subject PATH3101 comprises an introduction to basic disease processes (General Pathology), ie. those fundamental processes which are common to all tissues and organs of the body. The subject 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.

**Assessment:** Proficiency in the subject, sufficient to proceed to Year 4, will be assessed by mid-year and final examinations which will comprise 30% and 70% respectively of the total mark in Pathology. Both assessments will comprise theory and practical components. Progress self-assessments with automated feedback will be made available on the World Wide Web.

### **PHPH3014**

#### **Medical Physiology 2**

*Staff Contact: Dr B Nail*

CP 20 F HPW4

**Objectives:** To extend knowledge of normal physiology to areas not covered in Medical Physiology I, particularly blood, 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 subject are discussed. In addition, the subject places emphasis on applied physiology, including the physiology of exercise. Some clinical physiology is included 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 mid-year and at the end of the year and cover both lecture and practical content.

### **PHPH3055**

#### **Medical Pharmacology**

*Staff Contact: Dr V Kapoor*

CP25 F HPW4

**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 subject is concerned with basic principles of drug action, including the pharmacodynamics, pharmacokinetics and toxicology of drugs of clinical importance.

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

## **Year 4**

Year 4 of the course is primarily 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 patients' 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 subject 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 Short 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

### MSG4001

#### Integrated Clinical and Community Studies

Staff Contact: Prof J Dwyer

CP120 F

**Objectives:** By the end of Year 4, 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 Year 4 but only the principles of management and introductory aspects of therapeutics will be assessed at the end of Year 4. As Year 4 attachments will not be repeated in Year 6, students must make the most of their opportunity to learn the management and therapeutic principles which they see in practice during their attachments.

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 Year 4 program is the clinical attachments. 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 resolutions, is to be emphasised. This is an important consideration because, as subdiscipline exposure in Year 4 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 the problems of patients on the student's ward. Pathology tutorials will be held each week, and one medical and one surgical lecture may be provided. The following skills are to be acquired during Year 4 or 6 of the course and the acquisition of such skills will be noted in the student's logbook after an appropriate examination: sterile technique; operating theatre procedures; cardiopulmonary resuscitation; intramuscular injection; use of ophthalmoscope; 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; rectal examination; urinalysis; urinary catheterisation.

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 Year 4. 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 Year 3 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 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, Clinical Pharmacology 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. Assessment of Pathology will also involve the submission of a project report.

In addition to the written papers, a clinical short case examination will be held. Assessment will be based on the approach to clinical examination, eliciting of abnormal signs and the interpretation of their significance.

For students to be eligible to sit for the examinations to be held at the end of Year 4, 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 four 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 concurrently. For this purpose students are allocated to a particular group (A, B, C, or D) and will follow the program 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 four term examinations before progressing to Year 6. 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 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 under entry for Year 6.

## Year 5 Subject Descriptions

### MFAC5001

#### Geriatrics/General Practice/Subspecialties

*Staff Contact: Prof M. Harris and Dr J. Frith*  
CP30

This nine week term will start with an introductory week of tutorials in Geriatrics, 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 subject consists of tutorials and practical experience in a range of health care facilities.

*Assessment:* Students are assessed on a viva voce, written assessments and log book completion.

#### General Practice

By the end of the subject the students should have acquired:

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.
5. An understanding of rural general practice.

During the teaching sessions on campus, at Fairfield Hospital 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; knowledge of rural practice and issues in rural health.

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 two assignments for the Fairfield tutorial at the end of their first (city) GP attachment, a written assignment on a rural health issue during their second (rural) GP attachment, and a final role play consultation viva assessment.

### 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.

### OBST5001

#### Obstetrics and Gynaecology

*Staff Contact: Prof M Bennett*  
CP30

*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, and Liverpool 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, a written examination and an objective, structured clinical examination in the last week of term.

## **PAED5101**

### **Paediatrics**

*Staff Contact: Prof R Henry*  
CP30

**Objectives:** To understand the physical, intellectual, and emotional development of children; to recognise important interactions between the child, the family and the community; to take a reliable medical history from children and parents/guardians; to perform a reliable physical examination; to communicate with children and parents/guardians; to recognise acutely ill children and initiate management; to recognise and initiate management of common paediatric disorders; to recognise the role of preventative care in child health; to recognise the roles of allied health care professionals.

General Paediatrics and Paediatric Surgery are taught at the Sydney Children's Hospital (5 weeks) and Associated Hospitals including rural locations (4 weeks). Clinical clerking and practical involvement in care of inpatients are emphasised. Seminars and lectures on core material, case conferences, and instruction in clinical skills are provided. Students are expected to spend one night in four and one or two weekends per term in residence. Neonatal medicine is integrated with teaching of obstetrics and gynaecology.

**Assessment:** Progressive assessment from clinical supervisors through the term, multiple choice, objective structured clinical assessments and clinical examinations in the last week of term.

## **PSCY5001**

### **Psychiatry**

*Staff Contact: Prof G Parker*  
CP30

**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 and Guardianship Board legislation; 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 Monday to Friday in week 1 and mornings and afternoons Monday and Friday weeks 2-8. The remaining days are spent at Prince of Wales, St George, St Vincent's, Sutherland, Bankstown, Liverpool 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 and to the Forensic Psychiatry Unit at Long Bay Gaol are organised.

**Assessment:** A video examination is held mid-term to assess interviewing skills. 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 and two clinical case histories are also part of the assessment.

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## **Year 6**

The first term in Year 6 is an Elective term (MFAC6001) of 8 weeks. The remaining five terms totalling 33 weeks are devoted to the subject Integrated Clinical Studies 6 (MDSG6001) which is primarily based in the Teaching Hospitals.

## **Year 6 Subject Descriptions**

### **MDSG6001**

#### **Integrated Clinical Studies 6**

*Staff Contact: Prof J Dwyer*  
CP110

**Objectives:** To build on the student's experiences in Years 4 and 5 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 the 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 program. The year is organised as follows.

After the completion of Year 5, students complete an elective term. Time for this program is provided through

the first weeks of Year 6. Students must report to the University in late February to commence the formal work associated with the Clinical Studies program for Year 6.

The next week of the year will involve a campus program similar to those presented in Year 4. Following that week, two further campus weeks will be held during the year. The lecture, tutorial and correlation clinic programs 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 Teaching Hospitals may strengthen the structured learning experience by providing additional lectures. However the time available for such additional programs will be strictly limited so that students are not diverted from their principal work on the wards.

Five 6-week attachments complete 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 rural hospital, where appropriate arrangements have been made for supervision. The remaining terms assigned to students will complement terms completed in Year 4. One medical and one surgical attachment will be provided at the students' Principal Hospital and a further term will be provided at a rural hospital.

Students may request a specific program during the flexible fifth term of Year 6, providing their progress has been satisfactory.

As in Year 4, 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 their experience and 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 students 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 focused clinical case examination with emphasis on management and therapeutics, a free ranging *vive voce* examination and a Multiple Choice Examination involving questions related to medicine, surgery, community medicine and clinical 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: Prof S Bruce Dowton*  
CP10

**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 third week in February 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 Faculty Office by the end of the term.

Students who gain more than one acceptance for the elective term must 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:** 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 relevant Clinical Associate Dean 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 Guild which covers course related activities within Australia only. Enquiries about this policy should be made directly to the Student Guild.

## 3821

## Combined Science and Medicine Course BSc MB BS

The Science/Medicine course is an alternative course of study, whereby, over a seven-year program, 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 Presiding Member of the Faculty's BSc MB BS 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 credit points. For the Science degree, a minimum of 345 credit points in approved science subjects and 30 General Education credit points are required. Students usually take 135 credit points in Year 1 and 120 credit points in each of Years 2 and 3.

## 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 and Molecular Genetics
BIOS	Biological Science
CHEM	Chemistry
MATH	Mathematics
PHPH	Physiology and Pharmacology

PHYS	Physics
PSCY	Psychiatry

### Year 1

All students take each of Biology, Chemistry, Mathematics and Physics. There is a choice of level in Mathematics and Physics.

Year 1		CP
BIOS1101	Evolutionary and Functional Biology	15
BIOS1201	Molecules, Cells and Genes	15
CHEM1101	Chemistry 1A	15
CHEM1201	Chemistry 1B	15
MATH1011	General Mathematics 1B	15 or
MATH1131	Mathematics 1A	15 or
MATH1141	Higher Mathematics 1A	15
MATH1021	General Mathematics 1C	15 or
MATH1231	Mathematics 1B	15 or
MATH1241	Higher Mathematics 1B	15
PHYS1002	Physics 1	30 or
PHYS1022	Physics 1 (For Health and Life Scientists)	30
Two General Education subjects		15

### Year 2

All students must take subjects in Anatomy, Biochemistry and Physiology. In addition, students may take one or two electives. Some Year 3 programs require students to take a specified subject in place of an elective. Human Behaviour must be taken in either Year 2 or Year 3.

Year 2		
ANAT2111	Introductory Anatomy	15
ANAT2211	Histology	15
BIOC2101	Principles of Biochemistry	15
BIOC2201	Principles of Molecular Biology	15
PHPH2112	Physiology 1	30
Elective(s)*		
PSCY2201	Human Behaviour (Science)**	15
Two General Education subjects		15

\* 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 2 Chemistry prerequisites 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 BIOC2101 Principles of Biochemistry as determined by the Head of School of Biochemistry and Molecular Genetics.

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

**Year 3**

The program must include at least one Level 2 Anatomy subject and BIOC3261 Human Biochemistry. Under some circumstances one of the Anatomy subjects or BIOC3261 Human Biochemistry may be taken in Year 2. PSCY2201 Human Behaviour must be taken in Year 3 if not taken in Year 2. Students are not permitted to enrol in either PHPH3152 Pharmacology or PATH3201 Basic and Applied Pathology as Pharmacology and Pathology are studied in Year 3 of the Medicine course. Students who complete the four Level 3 Physiology subjects MAY be given an exemption from the Year 3 Medicine subject PHPH3014 Medical Physiology 2. Students must complete an Anatomy, Biochemistry or Physiology major. This requires students to take Level 3 subjects totalling at least 75 credit points. The possible majors are listed below.

**Year 3***Anatomy Major*

4 Level 3 Anatomy subjects	60
BIOC3261 Human Biochemistry*	15
PSCY2201 Human Behaviour (Science)*	15
3 Electives	45

*Anatomy Double Major*

7 Level 3 Anatomy subjects	105
BIOC3261 Human Biochemistry*	15
PSCY2201 Human Behaviour (Science)*	15

*Anatomy and Biochemistry Double Major*

4 Level 3 Anatomy subjects	60
3 Level 3 Biochemistry subjects	45
PSCY2201 Human Behaviour (Science)*	15
1 Elective	15

*Anatomy and Physiology Double Major*

4 Level 3 Anatomy subjects	60
BIOC3261 Human Biochemistry*	15
PHPH3121 Membrane and Cellular Physiology	15
PHPH3131 Neurophysiology	15
PHPH3211 Cardio-Respiratory and Exercise Physiology	15
PHPH3221 Endocrine, Reproductive and Developmental Physiology	15
PSCY2201 Human Behaviour (Science)*	15

*Biochemistry Major*

2 Level 3 Anatomy subjects	30
4 Level 3 Biochemistry subjects	60
PSCY2201 Human Behaviour (Science)*	15
2 Electives	30

*Biochemistry Double Major*

Not available

*Biochemistry and Physiology Double Major*

1 Level 3 Anatomy subject	15
3 Level 3 Biochemistry subjects	45
PHPH3121 Membrane and Cellular Physiology	15
PHPH3131 Neurophysiology	15
PHPH3211 Cardio-Respiratory and Exercise Physiology	15
PHPH3221 Endocrine, Reproductive and Developmental Physiology	15
PSCY2201 Human Behaviour (Science)*	15

*Physiology Major*

2 Level 3 Anatomy subjects	30
BIOC3261 Human Biochemistry*	15
PHPH3121 Membrane and Cellular Physiology	15
PHPH3131 Neurophysiology	15
PHPH3211 Cardio-Respiratory and Exercise Physiology	15
PHPH3221 Endocrine, Reproductive and Developmental Physiology	15
PSCY2201 Human Behaviour (Science)*	15
1 Elective	15

*Physiology Double Major*

Not available

\*This subject 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 of their major. 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 in accordance with the rules applying to the Medicine course 3801, together with an aggregate mark based on the Science component of the course.



## 3840

**Combined Arts and Medicine Course****BA BSc(Med) MB BS**

The Arts/Medicine course is an alternative course of study, in which, 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 Medicine course. 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 15 credit points of General Education in Year 1) as well as a minimum of 120 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.

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**Course Details**

Students are required to undertake all BSc(Med) MB BS subjects (with the exception of 15 credit points of General Education) plus a minimum of 120 credit points in Arts (including a major sequence) during Years 1 to 3. A major sequence equals 90 credit points (usually 30 at Level 1 and 60 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 15 credit points of General Education).

ANAT1006    Anatomy 1  
BIOC1319    Biochemistry for Medical Students  
MFAC1001    Introductory Clinical & Behavioural Studies  
PHPH1004    Biology for Medical Students  
Two General Education subjects (15 credit points)  
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. 120).

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 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, Gladesville Hospital Campus, Victoria Road, Gladesville NSW 2111, Telephone: 9817 0551.

**Registration:** The Registrar, Medical Board of New South Wales, Gladesville Hospital Campus, off Punt Road, Gladesville, Telephone 9879 6799.

### Deferment of Internship

#### 1. Deferment of internship for up to two years.

This may be granted by the Medical Board on the recommendation of the graduate's medical school. Normally this will be granted on medical grounds only, but in exceptional circumstances may be granted on other personal or compassionate grounds (eg. temporary transfer overseas with spouse, childbearing, need to care for close relative, etc.).

Normally deferment will be for one year only, and only in exceptional circumstances will it be granted on the recommendation of the medical school for two years. The medical school will 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 student's undergraduate course

was completed, but in exceptional circumstances (eg. family transfer to another state) it could be undertaken at another school. The medical school will 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 reattend on a full time basis one or more years of the course and undertake normal undergraduate assessments.

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

### Ranking Students for the Award of Honours and Intern Placement

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

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

2. The overall course mark is determined by applying the year weightings listed in Table 2 to the weighted year marks.

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

4. If a student were required to repeat a year (other than for 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 subject, except General Mathematics and Physics 1 (for Health and Life Scientists) (0.05 per subject) and Higher Mathematics (0.07 per subject).

**Level II** subjects weighted by 0.1875 per subject.

**Level III** subjects weighted by 0.25 per subject.

**Level II/III** subjects to be counted as Level II or Level III according to whether the student passed the subject in Second or Third Year.

**Level IV** subjects (Honours) not counted.

The three years of BSc component of the BSc MB BS course are treated as equivalent to the first two years of the MB BS course and therefore have a total year weight of 6 relative to the MB BS 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) MB BS course is the same as for the BSc(Med) MB BS 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 Year 6 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 1997 was:

### Class I Honours

Course Mark: 71.5%

Number of Awards: 22

Percent of graduands: 12.4%

### Class II Div. I

Course Mark: 69.9%–71.4%

Number of Awards: 22

Percent of graduands: 12.4%

### Class II Div. II

Course Mark: 67.3%–69.7%

Number of Awards: 27

Percent of graduands: 15.3%

## Intern Placement

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

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

**Table 1. Subject Weights Within Years (Six Year Course)**

	Subject Weights
<b>Year 1</b>	
Anatomy	3
Introductory Clinical and Behavioural Studies	2
Biology for Medical Students	1
Biochemistry for Medical Students	3
<b>Year 2</b>	
Medical Biochemistry and Genetics	2
Anatomy 2	3
Medical Physiology 1	3
Human Behaviour	1
<b>Year 3</b>	
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
<b>Year 4</b>	
Integrated Clinical and Community Studies	1
<b>Year 5</b>	
Obstetrics & Gynaecology	1
Paediatrics	1
Psychiatry	1
Geriatrics/General Practice/Subspecialties	1
<b>Year 6</b>	
Integrated Clinical Studies 6	1

**Table 2. Year Weights**

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

## 3831

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

This is a one year research program offered to students in the six year Medicine course who have achieved a high standard in their studies. Those who complete the research program in conjunction with the six 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 Office of the Dean 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 at least the first three years of the six year Medicine course 3801 or at least 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 take part in the activities of the school by participation in seminars, by presentation of essays and other prescribed activities.
4. Candidates are normally required to give an oral presentation during the year and this may be taken into account in the assessment.
5. The degree 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.

## School of Health Services Management

### Some People Who Can Help You

#### Administrative Officer

Deidre Kennedy (Room 227, Samuels Building)  
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The School of Hospital Administration was founded in 1956 with a grant from the WK Kellogg Foundation to provide training in hospital administration. In 1969 the name was changed to School of Health Administration, and in 1989 to School of Health Services Management (its present name), in accordance with its broader objectives in teaching and research. It serves the needs of hospitals and health services throughout Australia but qualified overseas candidates are also admitted.

The School of Health Services Management currently offers both undergraduate and graduate programs. The

Bachelor of Health Administration (BHA) is being discontinued and no new students have been admitted into the BHA since 1992. The BHA qualification will no longer be offered or conferred after the current group of students have completed their studies. The School will focus exclusively on postgraduate programs.

The School also offers three formal courses in health services management leading to the awards of the degree of Master of Health Planning, Master of Health Administration, and the Graduate Certificate in Health Services Management. These courses may be undertaken by coursework on a full-time, part-time or external basis. In addition, the degrees of Master of Health Administration, and Doctor of Philosophy may be taken following periods of full-time or part-time research in hospital and health service management.

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## Undergraduate Study Course Outlines

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### Bachelor of Health Administration

#### Note: No new enrolments since 1992

The Bachelor of Health Administration degree course is essentially multidisciplinary, with subjects chosen to impart relevant knowledge, attitudes and skills in a number of areas. There is, however, a compulsory core stream of management subjects. All students enrol in the same compulsory subjects in the first two-thirds of the course; thereafter electives are available to develop in some depth areas of special interest. A degree course at Honours Level is also available, the main objectives of which are to assist the student in achieving a deeper understanding of a subject or topic germane to the field of health administration, and competence in research and writing skills. Conditions for the award of the degree at Honours Level are listed below.

Candidates may be granted exemptions from a number of subjects if they have completed previous postmatriculation qualifications, e.g. nursing, radiography. Exemptions will be considered once the student has been accepted into the course, not before.

#### Conditions for the Award of the Degree of Bachelor of Health Administration

1. The degree of Bachelor of Health Administration may be awarded as a Pass degree or as an Honours degree. Three classes of Honours are awarded: Class 1, Class 2 in two divisions and Class 3.

2. A candidate for the degree of the Bachelor of Health Administration (Pass or Honours) shall:

(1) comply with the requirements for admission;

(2) follow the prescribed course of study in the School of Health Services Management and satisfy the examiners in the necessary subjects.

3. A student who is in the later stages of the course as an external student shall in each year attend the residential school conducted by the School of Health Services Management in the middle of the academic year.

4. Students who are enrolled internally but who are permitted to undertake an additional subject on an external enrolment basis will be required to attend lectures at a residential school in the subject.

5. (1) A student enrolled in the external or part-time internal course shall not normally be permitted to enrol in more than four subjects (inclusive of general education subjects) in any one year.

(2) A student enrolled in the full-time course shall not normally be permitted to enrol in more than eight subjects (inclusive of general education subjects) in any one year.

(3) Permission from the Head of School must be obtained for any departure from the sequence of subjects set out under the full-time and part-time (external) course patterns above.

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### Honours Degree

6. A student who has completed the second year of the full-time course, or the corresponding stage of the external course, normally with grades of Credit or better in all subjects, may make a written application to the Head of School of Health Services Management to enrol in the Honours subjects of the third year. These subjects are: HEAL0340 Management of Health Services (Honours) and HEAL3130 Research and Evaluation Methods (Honours).

7. A student who then achieves a high level of academic performance in the third year Honours subjects is normally admitted to the final year of the Honours degree course. External students who have demonstrated outstanding achievement throughout the Pass course may be permitted to enrol in the final year of the Honours course even though they are unable to attend on a full-time internal basis during the final year.

8. The content of the Honours year subjects, HEAL8900 Thesis, HEAL8910 Advanced Studies in Health Administration A, and HEAL8920 Advanced Studies in Health Administration B, should be planned in collaboration with the student's thesis supervisor.

9. Normally, full-time internal students are expected to complete the Honours year requirements in one academic year, terminating with the submission of the thesis. External students are required to complete at least one month of full-time attendance at the University during the two years of Honours enrolment in order to complete satisfactorily Honours course requirements. The timing of University attendance is arranged with the student's thesis supervisor.

## General Education Program

10. The University requires that undergraduate students undertake a structural program in General Education as an integral part of their degree.

### 4040

#### Health Administration Degree Course Full-time (Pass) Internal Mode

#### Bachelor of Health Administration BHA

External mode offered only to continuing students; no new enrolments since 1992

Year 1		CP
<i>Session 1</i>		
HEAL0310	Management of Work	15
HEAL1110	Health Care Systems	15
HEAL5400	Health Information Systems	15
<i>Session 2</i>		
HEAL1120	Public Health and Epidemiology	15
HEAL4210	Health Planning 1	15
HEAL5210	Law 1 or HEAL5200 Law 1T	15
<b>Year 2</b>		
<i>Session 1</i>		
HEAL0320	Management of Organisations	15
HEAL5410	Accounting and Financial Management 1	15
HEAL6110	Sociology, Ethics and Health 1	15
General Studies		15
<i>Session 2</i>		
HEAL5510	Health Economics 1	15
HEAL7110	Quantitative Methods and Statistics 1	15
Elective		15
<b>Year 3</b>		
<i>Session 1</i>		
HEAL0330	Management of Health Services	15
Elective		15
Elective		15
<i>Session 2</i>		
Elective		15
Elective		15
Elective		15
General Studies		15

Certain subjects in the BHA course are not necessarily offered every year. Students should check with the School to ascertain which subjects are to be offered in a particular year.

#### Notes:

(i) Students who wish to transfer from full-time to part-time studies after acceptance must seek approval from the course coordinator.

(ii) Students in full-time employment should not seek to undertake full-time studies in the BHA degree course.

### 4040

#### Health Administration Degree Course Part-time Internal Mode

#### Bachelor of Health Administration BHA

Year 1		CP
<i>Session 1</i>		
HEAL1110	Health Care Systems	15
HEAL5400	Health Information Systems	15
<i>Session 2</i>		
HEAL1120	Public Health and Epidemiology	15
HEAL5210	Law 1 or HEAL5200 Law 1T	15
<i>Session 1</i>		
HEAL0310	Management of Work	15
HEAL5410	Accounting and Financial Management 1	15
<i>Session 2</i>		
HEAL6110	Sociology, Ethics and Health 1	15
HEAL7110	Quantitative Methods and Statistics 1	15
<b>Year 3</b>		
<i>Session 1</i>		
HEAL0320	Management of Organisations	15
HEAL4210	Health Planning 1	15
<i>Session 2</i>		
HEAL5510	Health Economics 1	15
General Studies		15
<b>Year 4</b>		
<i>Session 1</i>		
HEAL0330	Management of Health Services	15
Elective		15
<i>Session 2</i>		
Elective		15
General Studies		15
<b>Year 5</b>		
<i>Session 1</i>		
Elective		15
Elective		15
<i>Session 2</i>		
Elective		15
Elective		15

Certain subjects in the BHA course are not necessarily offered every year. Students should check with the School to ascertain which subjects are to be offered in a particular year.

**4040****Health Administration Degree Course****External Mode****Bachelor of Health Administration****BHA**

(External mode offered only to continuing students; no new enrolments after 1989)

		<b>CP</b>
<b>Year 1</b>		
HEAL0310	Management of Work	15
HEAL1110	Health Care Systems	15
HEAL5400	Health Information Systems	15
<b>Year 2</b>		
HEAL1120	Public Health and Epidemiology	15
HEAL5210	Law 1 or HEAL5200 Law 1T	15
HEAL5410	Accounting and Financial Management 1	15
<b>Year 3</b>		
HEAL0320	Management of Organisations	15
HEAL6110	Sociology, Ethics and Health 1	15
HEAL7110	Quantitative Methods and Statistics 1	15
<b>Year 4</b>		
HEAL4210	Health Planning 1	15
HEAL5510	Health Economics 1	15
Elective		15
General Studies		15
<b>Year 5</b>		
HEAL0330	Management of Health Services	15
Elective		15
Elective		15
General Studies		15
<b>Year 6</b>		
Elective		15
Elective		15
Elective		15

Certain subjects in the BHA course are not necessarily offered every year. Students should check with the School to ascertain which subjects are to be offered in a particular year.

**4040****Health Administration Degree Course Full-time (Honours) Internal Mode****Bachelor of Health Administration****BHA**

		<b>CP</b>
<b>Year 1</b>		
<i>Session 1</i>		
HEAL0310	Management of Work	15
HEAL1110	Health Care Systems	15
HEAL5400	Health Information Systems	15

<i>Session 2</i>		
HEAL1120	Public Health and Epidemiology	15
HEAL4210	Health Planning 1	15
HEAL5210	Law 1 or HEAL5200 Law 1T	15

**Year 2**

<i>Session 1</i>		
HEAL0320	Management of Organisations	15
HEAL5410	Accounting and Financial Management 1	15
HEAL6110	Sociology, Ethics and Health 1	15
General Studies		15

*Session 2*

HEAL5510	Health Economics 1	15
HEAL7110	Quantitative Methods and Statistics 1	15
Elective		15

**Year 3**

<i>Session 1</i>		
HEAL0340	Management of Health Services (Honours)	15
Elective		15
Elective		15

*Session 2*

HEAL3130	Research and Evaluation Methods (Honours)	15
General Studies		15
Elective		15
Elective		15

**Year 4**

HEAL8900	Thesis	90
HEAL8910	Advanced Studies in Health Administration A	15
HEAL8920	Advanced Studies in Health Administration B	15

Certain subjects in the BHA course are not necessarily offered every year. Students should check with the School to ascertain which subjects are to be offered in a particular year.

**Notes:**

- (i) Students who wish to transfer from full-time to part-time studies after acceptance must seek approval from the course coordinator.
- (ii) Students in full-time employment should not seek to undertake full-time studies in the BHA degree course.

**Elective Subjects**

Electives are to be chosen by the student in consultation with the Head of the School of Health Services Management, from the subjects offered by the School of Health Services Management and such other schools or institutions as are deemed appropriate. The approval of the relevant Head of School is required to undertake a subject offered by another school or institution.

The electives have been specifically chosen to provide an opportunity for students to develop in some depth their particular vocational interests, eg three planning electives may be taken.

The following subjects have been approved as electives in the School of Health Services Management; not all subjects are necessarily available each year:

		<b>CP</b>
HEAL3010	Political Science	15
HEAL3020	Social Policy Administration	15
HEAL3030	Research and Evaluation Methods	15
HEAL3040	Management Skills	15
HEAL3060	Administration of Nursing Services	15
HEAL3070	Special Topic in Health Administration	15
HEAL3080	Epidemiology for Health Administrators	15
HEAL3090	Long Term Care Administration	15
HEAL3100	Human Resource Management	15
HEAL3110	Computer Techniques for Health Service Management	15
HEAL3120	Industrial Relations	15
HEAL3160	Current Issues in Nursing	15
HEAL4220	Health Planning 2A	15
HEAL4230	Health Planning 2B	15
HEAL4240	Health Planning 2C	15
HEAL5220	Law 2	15
HEAL5420	Accounting and Financial Management 2	15
HEAL5520	Health Economics 2	15
HEAL6120	Sociology, Ethics and Health 2	15
HEAL7120	Quantitative Methods and Statistics 2	15

### **Non-Award Students**

Non-Award students enrolled on an external basis in subjects of the Bachelor of Health Administration degree course are required to meet all the conditions for the completion of each subject, including attendance at lectures in the subject at a residential school.



## 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.

<b>ANAT1006</b> <b>Anatomy 1</b>	<b>Year 1</b>
<b>ANAT2007</b> <b>Anatomy 2</b>	<b>Year 2</b>
<b>BIOC1319</b> <b>Biochemistry for Medical Students</b>	<b>Year 1</b>
<b>BIOC2329</b> <b>Medical Biochemistry and Genetics</b>	<b>Year 2</b>
<b>CMED3001</b> <b>Medical Ethics and Health Law</b>	<b>Year 3</b>
<b>MDSG2001</b> <b>Clinical Studies 2</b>	<b>Year 2</b>
<b>MDSG3001</b> <b>Clinical Studies 3</b>	<b>Year 3</b>
<b>MDSG4001</b> <b>Integrated Clinical and Community Studies</b>	<b>Year 4</b>
<b>MDSG6002</b> <b>Integrated Clinical Studies 6</b>	<b>Year 6</b>
<b>MFAC1001</b> <b>Introductory Clinical and Behavioural Studies</b>	<b>Year 1</b>
<b>MFAC5001</b> <b>Geriatrics/General Practice/Subspecialties</b>	<b>Year 5</b>
<b>MFAC6001</b> <b>Final Year Elective Term</b>	<b>Year 6</b>
<b>OBST5001</b> <b>Obstetrics and Gynaecology</b>	<b>Year 5</b>
<b>PAED5101</b> <b>Paediatrics</b>	<b>Year 5</b>
<b>PATH3101</b> <b>Pathology</b>	<b>Year 3</b>
<b>PHPH1004</b> <b>Biology for Medical Students</b>	<b>Year 1</b>
<b>PHPH2018</b> <b>Medical Physiology 1</b>	<b>Year 2</b>
<b>PHPH3014</b> <b>Medical Physiology 2</b>	<b>Year 3</b>
<b>PHPH3055</b> <b>Medical Pharmacology</b>	<b>Year 3</b>
<b>PSCY2101</b> <b>Human Behaviour</b>	<b>Year 2</b>
<b>PSCY5001</b> <b>Psychiatry</b>	<b>Year 5</b>

### Anatomy

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

#### **ANAT2111**

##### **Introductory Anatomy**

*Staff Contact: Dr B Freeman*

CP15 F HPW6

*Prerequisites:* BIOS1101, BIOS1201

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

#### **ANAT2151**

##### **Introductory Functional Anatomy**

*Staff Contact: Dr K Ashwell*

CP7.5 S1 L2 T1 HPW3

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.

#### **ANAT2211**

##### **Histology 1**

*Staff Contact: A/Prof P Waite*

CP15 F HPW3

*Prerequisites:* BIOS1101, BIOS1201

*Corequisite:* ANAT2111

Theory and practical aspects of modern histological techniques. Basic histology, including the morphological and functional properties of epithelial, connective, muscle and nervous tissues. Systematic histology, including a histological examination of the major systems of the body; cardiovascular, respiratory, lymphatic, integumentary, digestive, endocrine, urinary, reproductive and nervous (including eye and ear) systems. Emphasis on the ability to interpret histological sections and selected electron micrographs of mammalian tissues and organs and to relate morphology to tissue and organ function.

#### **ANAT2311**

##### **Vertebrate Development**

*Staff Contact: A/Prof D Walsh / Dr M Hill*

CP15 F HPW3

*Corequisite:* ANAT2211, ANAT2111

The subject will cover the morphology and mechanisms responsible for organising the vertebrate body plan in the embryo. Topics will include the molecular, genetic and cellular approaches to studying the development of human embryology using the four main vertebrate systems: frog,

fish, chick and mouse. The subject will focus on elucidating common principles and differences which underlie the development of all vertebrates throughout evolution. Specifically the role of axial patterning, germ layers, target recognition and interaction in the nervous system; axial polarity; cell adhesion; differentiation factors in cell fate; organogenesis and signalling in development. Emerging technologies such as genomic analysis will be covered, as well as the use of dysfunctional mouse mutants in research.

### **ANAT3121**

#### **Visceral Anatomy**

*Staff Contact: Dr K Ashwell*

CP15 S2 HPW6

*Prerequisite:* ANAT2111

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: Prof D Tracey*

CP15 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: Prof D Tracey*

CP 15 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.

### **ANAT3231**

#### **Cell Biology**

*Staff Contact: Dr M Hill*

CP15 S1F HPW4

*Prerequisite:* BIOS1101, BIOS1201, BIOC2101 or BIOC2201 or BIOC2181 or BIOC2291 or PHPH2112

To develop an understanding of the anatomy and biology of the cell. Cell biology combines traditional anatomical methods with recent cell and molecular biology techniques. Key concepts will include developmental differentiation of the cell, its polarity, motility, cytoskeleton, signal transduction mechanisms and outcomes. An introduction to concepts of cell and extracellular matrix interactions will also be covered.

### **ANAT3411**

#### **Neuroanatomy 1**

*Staff Contact: Dr E Tancred and Dr S Robinson*

CP15 S1 HPW6

*Prerequisites:* ANAT2211, ANAT2111

Provides overview of functional organisation of central nervous system. Topics covered include: 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**

#### **Research Topics in Neuroscience**

*Staff Contact: Dr S Robinson*

CP15 S2 HPW3

*Prerequisite:* ANAT3411

Focuses on selected areas of contemporary neuroscience research interest. *Includes:* brain development and axon guidance, peripheral nerve regeneration, spinal cord injury, pain pathways, visual system function, cortical plasticity, brain imaging, mechanisms of learning and memory, motor systems and the neuropathology in degenerative disorders. The subject is organised in seminar format with discussion of original research papers. It is ideal for students considering doing Honours as it provides a background to current research problems and the opportunity to undertake a small project.

### **ANAT4508**

#### **Anatomy 4**

*Staff Contact: Dr S Robinson*

CP120 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.

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## **Biochemistry**

### **BIOC2101**

#### **Principles of Biochemistry**

*Staff Contact: Dr I McFarlane, A/Prof M Edwards*

CP15 S1 HPW6

*Prerequisites:* BIOS1011 and BIOS1201, CHEM1101 and CHEM1201 or CHEM1002

**Note/s:** Excluded BIOC1319, BIOC2312, BIOC2372, CHEM2929, BIOC2181

Enrolment in this subject may be subject to quota restrictions. Such restrictions will only apply to students taking this subject as an elective part of their program.

An introduction to modern biochemistry covering fundamental aspects of the structure-function relationships

of proteins and an overall coverage of intermediary metabolism. Major topics to be covered will include: the nature and function of enzymes; the metabolic working of cells, tissues and organs; the interrelationships between the pathways of carbohydrate, lipid and amino acid metabolism; the vital role of enzymes and hormones in catalysis and metabolic regulation; the energy-trapping mechanisms of animals and plants; interesting variations on the central metabolic pathways in various life forms. Practical work to complement the lectures and to introduce the principles of biochemical analysis.

### **BIOC2201**

#### **Principles of Molecular Biology**

*Staff Contact: A/Prof T Stewart, Mr H Shoory*

CP15 S1 HPW6

*Prerequisites:* BIOC2101

**Note/s:** Excluded BIOC2312, BIOC2372, BIOC2291

Enrolment in this subject may be subject to quota restrictions. Such restrictions will only apply to students taking this subject as an elective part of their program.

This subject provides an introduction to modern molecular biology and covers the molecular mechanisms of gene expression and the fundamental aspects of recombinant DNA technology. The major topics to be covered include: the structure and function of DNA and RNA; the replication and transcription of DNA; translation of the genetic code into an amino acid sequence during protein synthesis; regulation of gene expression; manipulation of DNA including fragmentation by restriction enzymes, cloning of DNA fragments into vectors, hybridization analysis and principles of DNA sequencing; protein structure and function, protein engineering and site-directed mutagenesis; amplification of DNA by the polymerase chain reaction (PCR). Practical work to complement the lectures.

### **BIOC3111**

#### **Molecular Biology of Proteins**

*Staff Contact: Dr G King*

CP15 S1 HPW 6

*Prerequisites:* BIOC2312 or BIOC2372 or BIOC2101 and BIOC2201

Modern aspects of the structure-function relationships of proteins including discussion of the latest techniques of protein characterisation. 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.

### **BIOC3121**

#### **Molecular Biology of Nucleic Acids**

*Staff Contact: Dr A Bagnara*

CP15 S1 HPW 6

*Prerequisites:* BIOC2312 or BIOC2372 or BIOC2101 and BIOC2201

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 hybridisation 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.

### **BIOC3261**

#### **Human Biochemistry**

*Staff Contact: A/Prof P Schofield*

CP15 S2 HPW6

*Prerequisite:* BIOC2312 or BIOC2372 or BIOC2101 and BIOC2201

This unit covers aspects of metabolism that are of particular relevance to the human. The major topics to be covered will be selected from: nutrition, exercise, neurochemistry, xenobiotics, nucleotide and one-carbon metabolism, genetic diseases and molecular aspects of parasitology. 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. Specialised 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. Molecular studies of malaria and other parasites of the human. Practical work to amplify the lectures.

### **BIOC3271**

#### **Molecular Cell Biology**

*Staff Contact: A/Prof M Edwards*

CP15 S2 HPW6

*Prerequisite:* BIOC2312 or BIOC2372 or BIOC2101 and BIOC2201

Cell biology from a molecular viewpoint. Biochemical aspects of cellular organisation 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.

### **BIOC3281**

#### **Recombinant DNA Techniques and Eukaryotic Molecular Biology**

*Staff Contact: A/Prof T Stewart*  
CP15 S2 HPW6

*Prerequisite:* BIOC3121

The organisation 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 characterisation of eukaryotic genomes in terms of the organisation 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 specialised 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 hybridisation and DNA sequencing.

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## **Biological Science**

### **BIOS1201**

#### **Molecules, Cells and Genes**

*Staff Contact: Dr ML Augee*  
CP15 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 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.:

**Note/s:** Practical and tutorial seat assignments must be obtained at the Biology Enrolment Centre on the day of enrolment. 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. Excluded BIOS1001 and BIOS1301.

The subject is concerned with the basic characteristics of life. The chemistry of life is covered with emphasis on the way in which living things construct and break down macromolecules. The way in which the genetic code controls these processes depends to a great extent on the structure and function of cell components, and cell biology is a major component of the subject. The final topic is genetics – the way in which the genetic code is inherited and the ways in which it can be modified.

### **BIOS1101**

#### **Evolutionary and Functional Biology**

*Staff Contact: Dr ML Augee*  
CP15 S2 HPW6

**Note/s:** There are no prerequisites. Practical and tutorial seat assignments must be obtained at the Biological Science Student Office (Rm G27 Life Science Bld) BEFORE Session 2 starts. You need to purchase the subject guide at the same time, as it contains essential details about assessment, practical work and the equipment required for practicals. Excluded: BIOS1021 and BIOS1301.

The subject examines the evolutionary history of life on earth and the relationship between environment, adaptation and function. Animal and plant physiology are covered with an emphasis on adaptation to Australian environmental conditions.

### **BIOS2031**

#### **Biology of Invertebrates**

*Staff Contact: Dr I Suthers*  
CP15 S2 HPW6

*Prerequisites:* BIOS1011 or BIOS1101 and BIOS1021 or BIOS1201

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 during the mid session break. Personal expenses will be incurred.

### **BIOS2061**

#### **Vertebrate Zoology**

*Staff Contact: Dr ML Augee*  
CP15 S1 HPW6

*Prerequisites:* BIOS1011 or BIOS1101 and BIOS1021 or BIOS1201

**Note/s:** Practical class applications must be obtained during re-enrolment week from Room G21, Life Sciences Building. For further details, see Faculty timetable.

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.

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## **Chemistry**

### **CHEM1101**

#### **Chemistry 1A**

*Staff Contact: Dr P Chia*  
CP15 S1 or S2 HPW6

*Prerequisites:* HSC exam mark range required: 2 unit Mathematics 60 -100, or 3 unit Mathematics 1-50, or 4 unit Mathematics 1-100 and 2 unit Chemistry 65-100, or 3 unit Science 90-150, or 4 unit Science 1- 200 or 2 unit Physics 75-100, or CHEM1401 65 or higher.

**Note:** Students who have not undertaken chemistry or physics at HSC level should take CHEM1401 before proceeding to CHEM1101. However, no more than 30 credit points of chemistry at Level 1 may be counted towards a Science degree.

Atomic structure and periodicity. Structure and shapes of molecules. Chemical reactions: types, rates and mechanisms. Reactions of organic compounds.

### CHEM1201

#### Chemistry 1B

*Staff Contact: Dr P Chia*

CP15 S2 or Summer Session HPW6

*Prerequisite:* CHEM1101

**Note:** Students who require CHEM1101 and CHEM1201 but have not undertaken chemistry at HSC level should take CHEM1401 before proceeding to CHEM1101. However, no more than two level 1 chemistry units may be counted towards a degree.

Properties of gases and liquids. Thermodynamics. Atmospheric chemistry. Solids and solubilities. Acids and bases. Aqueous chemistry. Electrochemistry.

## Chemistry Level II

### CHEM2021

#### Organic Chemistry

*Staff Contact: Dr R Read*

CP15 S2 HPW6

*Prerequisites:* CHEM1101 and CHEM1201 or CHEM1002

Applications of spectroscopy in structure elucidation. Reactive intermediates, addition and rearrangement reactions, carbonyl group chemistry. Chemistry of aromatic compounds.

### CHEM2041

#### Chemical and Spectroscopic Analysis

*Staff Contact: Dr R Read*

CP15 S1 HPW6

*Prerequisites:* CHEM1101 and CHEM1201 or CHEM1002, MATH1201 or MATH1231 or MATH1241.

Principles and applications of chemical and analytical spectroscopy. Statistical treatment of data. Titrimetric and potentiometric analysis. Separation techniques.

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## Health Services Management

### HEAL0310

#### Management of Work

*Staff Contact: Dr Anna Whelan*

CP15 S1 L4

Identifies the range of social, economic, political, industrial and technological factors which may influence the organisation of both work and workers in a variety of

settings. Analyses the interrelationships between the forms of work organisation which are used in different health care settings and the experiences and responses of workers located in these settings. Develops analytical abilities and practical skills and interpersonal skills.

### HEAL0320

#### Management of Organisations

*Staff Contact: Dr Pieter Degeling*

CP15 S1 L4

*Prerequisite:* HEAL0310

Emphasis on analytical skills. Develops the student's understanding of organisation theory and its application to management. Theories covered include systems, contingency, administrative, action and resource dependency, the pluralist perspective. Level of analysis is at organisational level rather than microperspective of HEAL0310.

### HEAL0330

#### Management of Health Services

*Staff Contact: Prof James Lawson*

CP15 S1 L4

*Prerequisites:* HEAL0310, HEAL0320

Analyses values, structures, management approaches and relationships within component organisations and programs of the Australian health services and related areas. Areas of study: comprehensive service provision, detailed analysis of individual organisations, departments or programs; roles of the manager; professional development; concepts of microstructure and social analysis. Students are required to use these and other tools in the analysis of practical situations.

### HEAL0340

#### Management of Health Services (Honours)

*Staff Contact: Prof James Lawson*

CP15 S1 L4

*Prerequisites:* HEAL0310, HEAL0320

**Note:** Not offered in 1998.

Includes and extends the theoretical and practical studies in HEAL0340. Students produce a literature review of a significant aspect of health and hospital services management analysing major conceptual issues and their development.

### HEAL1110

#### Health Care Systems

*Staff Contact: Mr Ian Forbes*

CP15 S1 L4

The system of organisations, institutions, services and financial arrangements which constitute the Australian health care system. Constitutional, legal and economic environment in which the system operates. Main characteristics of public and private hospitals, nursing homes and other institutions. Community health and other noninstitutional services. The financing of health services. The health work force, with emphasis on the medical and nursing components. Comparisons of the Australian health care system with those of other countries.

**HEAL1120****Public Health and Epidemiology**

*Staff Contact: Prof James Lawson*  
CP15 S2 L4

Definitions of health and disease; basic epidemiological concepts; medical terminology; body systems, classification of disease; disease causation. Protection and promotion of health with emphasis on contemporary risk factors; diagnosis; treatment practices. Evaluation of health and health care; health status indicators; preventive and therapeutic trends; research strategies.

**HEAL3010****Political Science**

*Staff Contact: Dr Pieter Degeling*  
CP15 SS L4

**Note:** Not offered in 1998

The study of politics, with special reference to Australian political institutions and administrative practices. Topics include: concepts and theories of politics; Australian political institutions and the party system; the Constitution and intergovernmental financial and legal relations; public administration with special reference to the Commonwealth and New South Wales public services.

**HEAL3020****Social Policy and Administration**

*Staff Contact: Dr Pieter Degeling*  
CP15 SS L4

**Note:** Not offered in 1998

The scope and principles of social policy and administration; values and value analysis; models and theories of social policy; problems in policy formulation, implementation, administration and evaluation; contemporary Australian social policy, health insurance, poverty, social security; systems of income guarantee, national compensation and national superannuation.

**HEAL3030****Research and Evaluation Methods**

*Staff Contact: Dr Mary-Louise McLaws*  
CP15 SS L4

*Prerequisites:* HEAL5400, HEAL7110

The need for and special problems of health services research and evaluation; the nature of 'scientific' knowledge; identifying appropriate research areas; statements of objectives and formulation of hypotheses; experimental and quasiexperimental designs; non experimental models; sample selection; means of acquiring data; introduction to analysis of data; methods of presenting findings; research and decision making policy issues.

**HEAL3040****Management Skills**

*Staff Contact: Mr Ian Forbes*  
CP15 SS L4

**Note:** Not offered in 1998.

An opportunity for students to extend their theoretical knowledge and to develop practical skills in communication, including consulting, negotiating and bargaining, conflict

management, interviewing, conducting meetings, giving instructions and making requests, writing reports, submissions and memos, public speaking and dealing with the media.

**HEAL3060****Administration of Nursing Services**

*Staff Contact: Dr Anna Whelan*  
CP15 SS L4

**Note:** Not offered in 1998.

Content is organised in terms of the material suggested by the standards for the Nursing Division of Hospitals compiled by Australian Nursing Federation. Major foci are the goals, structures, processes and control mechanisms common to nursing services departments.

**HEAL3070****Special Topic in Health Administration**

*Staff Contact: Mr Kevin Forde*  
CP15 SS L4

An occasional elective dealing with some aspect of health administration, selected according to current demand and availability of local and visiting lecturers.

**HEAL3080****Epidemiology for Health Administrators**

*Staff Contact: Dr Mary-Louise McLaws*  
CP15 SS L4

**Note:** Not offered in 1998.

The general purposes and content of epidemiological studies. Concepts and strategies of epidemiology. Sources, collection, collation and analysis of epidemiological data. The application of epidemiological methodology and information in the planning, operation and evaluation of health services.

**HEAL3090****Long Term Care Administration**

*Staff Contact: Prof James Lawson*  
CP15 SS L4

**Note:** Not offered in 1998.

Introduction to the more important theories, concepts and practical tools which are applicable to the evaluation, administration and planning of long term care institutions and nonresidential agencies and programs. Topics include: patient assessment and rehabilitation; psychiatric care; social factors; financial and economic aspects; quality measurement and control.

**HEAL3100****Human Resource Management**

*Staff Contact: Dr Anna Whelan*  
CP15 S1 L4

*Prerequisite:* HEAL0310

**Note:** Not offered in 1998.

Topics include: the employment relationship; the legislative and institutional context; current issues in industrial relations in health services; discrimination and work; EEO; participation of women in the health workforce; recruitment and selection policies and processes; employee training

and development; personnel appraisal/performance review; disciplinary actions, appeal procedures, termination of employment, redundancy; occupational health and safety; new management techniques such as Total Quality Management (TQM).

### **HEAL3110**

#### **Computing Techniques for Health Service Management**

*Staff Contact: Dr Deborah Black*

CP15 SS L4

*Prerequisite:* HEAL7110

**Note:** Not offered in 1998.

Programming and principles of operation of commercial software, including database management systems, word processors and spreadsheets. Application of software to, and development of, programming skills for health service management.

### **HEAL3120**

#### **Industrial Relations: A Health Sector View**

*Staff Contact: Dr Anna Whelan*

CP15 SS L4

**Note:** Not offered in 1998.

The role of the health administrator, the employing authority, the unions and the industrial tribunal will be examined within the context of the Australian health care system.

### **HEAL3130**

#### **Research and Evaluation Methods (Honours)**

*Staff Contact: Dr Mary-Louise McLaws*

CP15 SS L4

*Prerequisites:* HEAL5400, HEAL7110

**Note:** Not offered in 1998.

An extension of topics in HEAL3030 stressing the choice of constructive research problems, critical evaluation of the literature and formulation of a research protocol as background to the formal presentation of a thesis in Year 4.

### **HEAL3160**

#### **Current Issues in Nursing**

*Staff Contact: Dr Anna Whelan*

CP15 SS L4

Controversial aspects of the nursing profession of particular interest to nursing and health administrators. Current topics include: nursing education, unionism vs professionalism, political action in nursing, factors affecting the nurse's participation in the workforce.

### **HEAL4210**

#### **Health Planning 1**

*Staff Contact: Mr Ian Forbes*

CP15 S2 L4

Planning concepts, principles and approaches. Processes and procedures of planning. Sources of planning information. Health service planning at the national, regional and local levels. Facilities planning, building and evaluation.

### **HEAL4220**

#### **Health Planning 2A**

*Staff Contact: Mr Ian Forbes*

CP15 SS L4

*Prerequisite:* HEAL4210

**Note:** Not offered in 1998.

Building design processes and procedures; health facility design and construction; location, layout, space allocation, traffic systems, supply and disposal systems, energy conservation. Construction and contract management, commissioning and equipping, maintenance and renovation; cost control and site supervision; briefing and evaluation techniques.

### **HEAL4230**

#### **Health Planning 2B**

*Staff Contact: Mr Ian Forbes*

CP15 SS L4

*Prerequisite:* HEAL4210

**Note:** Not offered in 1998.

Environmental psychology and perception; anthropometrics, physiology of comfort and work performance; accident prevention, safety and security; building performance measurement, design in use surveys. Design for particular groups of users: aged, children, handicapped; design for clinical and supportive service functions and activities, eg inpatient care, surgery, consultation, catering, cleaning, etc.

### **HEAL4240**

#### **Health Planning 2C**

*Staff Contact: Mr Ian Forbes*

CP15 SS L4

*Prerequisite:* HEAL4210

**Note:** Not offered in 1998.

Techniques and models for planning health services including elementary location theory; definition of catchment areas; measuring population characteristics and needs; formulae for allocation of resources. Prediction, forecasting and operations research techniques. Introduction to use of computers in health service planning.

### **HEAL5200**

#### **Law 1T**

*Staff Contact: Mr Philip Bates*

CP15 S2 L4

**Note:** Not offered in 1998.

This is a compulsory terminating subject for eligible students who have previously studied Law subjects at tertiary level in other courses which did not have a health services law component. Eligible students should enrol in HEAL5200 Law 1T instead of enrolling in HEAL5210 Law 1. HEAL5200 briefly revises elementary legal concepts of the kind covered more fully in HEAL5210, and then deals with selected health law topics.

**HEAL5210****Law 1**

*Staff Contact: Mr Philip Bates*  
CP15 S1 L4

General introduction to law with health service applications, designed for students who have not previously studied law subjects. Topics: how to study law; the role of law in health administration and planning; Australia's legal origins and the role of English law; federalism and the constitutional framework; types of legal rules, the theory of precedent, and legislation; access to legal advice; aspects of the law of torts, contracts, criminal law, administrative law; the coroner; other selected health law topics.

**HEAL5220****Law 2**

*Staff Contact: Mr Philip Bates*  
CP15 SS L4

*Prerequisite:* HEAL5210

**Note:** Not offered in 1998.

An elective subject. Legal areas of special vocational concern for health administration and health planning. Relationships between existing laws and law reform proposals. The precise subject matter may vary from year to year depending partly on student's preferences and career expectations. Health law topics introduced in HEAL5210 also studied in more depth.

**HEAL5400****Health Information Systems**

*Staff Contact: Dr Deborah Black*  
CP15 S1 L4

**Note:** Not offered in 1998.

An introductory subject with a financial and quantitative emphasis, having special reference to the application of measurement techniques to health services data. Elementary statistics for health services management with an introduction to the uses of computing in health care. Information systems relevant to hospital management. Introduction to concepts of accounting, costs and budgeting.

**HEAL5410****Accounting and Financial Management 1**

*Staff Contact: Mr Kevin Forde*  
CP15 S2 L4

*Prerequisite:* HEAL5400

Introduction to accounting with particular reference to hospitals and health services institutions: basic accounting concepts; doctrines and conventions of accounting, analysis and interpretation of accounting data; Governmental budgeting and accounting systems; introduction to the theory and practice of hospital fund accounting; Federal State financial relations and their implications.

**HEAL5420****Accounting and Financial Management 2**

*Staff Contact: Mr Kevin Forde*  
CP15 SS L4

*Prerequisites:* HEAL5400, HEAL5410

**Note:** Not offered in 1998.

An overview of hospital management and financing. The theory and practice of hospital and government fund accounting. The preparation, analysis and interpretation of accounting records, cash and accrual accounting systems. Capital budgeting techniques. Introductory treatment of management accounting in hospitals and health service institutions. Internal control, hospital budget preparation and utilization, cost analysis in the hospital context.

**HEAL5510****Health Economics 1**

*Staff Contact: Mr Kevin Forde*  
CP15 S2 L4

*Prerequisite:* HEAL5400

An introduction to economic analysis as applied to the conditions and problems confronting Australia, with special reference to the economic aspects of health and medical care. Topics include: the economic approach; demand for and supply of medical services; the impact of insurance on the health care market; the efficient production and distribution of health services; the operation of the price system; the theory of costs and production; monetary and fiscal policy.

**HEAL5520****Health Economics 2**

*Staff Contact: Mr Kevin Forde*  
CP15 SS L4

*Prerequisites:* HEAL5400, HEAL5510

**Note:** Not offered in 1998.

Advanced topics in health economics, covering both macro and micro issues. Analysis of Australian health expenditure; hospital economics; health insurance.

**HEAL6110****Sociology, Ethics and Health 1**

*Staff Contact: Dr Stephanie Short*  
CP15 S2 L4

This subject introduces students to the social factors which shape the patterning of health and illness, and the delivery of health care services. Topics include: colonization and Aboriginal health; gender, patriarchy and health; bioethics and medical research; madness and medicine.

**HEAL6120****Sociology Ethics and Health 2**

*Staff Contact: Dr Stephanie Short*  
CP15 SS L4

*Prerequisite:* HEAL6110

**Note:** Not offered in 1998.

Extension of HEAL6110. In this subject health sociology issues are analysed with increasing theoretical and methodological rigour.



**HEAL7110****Quantitative Methods and Statistics 1***Staff Contact: Dr Deborah Black*

CP15 S1 L4

*Prerequisite:* HEAL5400

Quantitative and statistical methods pertaining to the administration, planning and management of health services.

**HEAL7120****Quantitative Methods and Statistics 2***Staff Contact: Dr Deborah Black*

CP15 SS L4

*Prerequisite:* HEAL7110**Note:** Not offered in 1998.

More advanced examination of quantitative and statistical methods.

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## Mathematics

**MATH1011****General Mathematics 1B***Staff Contact: School of Mathematics First Year Office*

CP15 S1 or S2 HPW6

*Prerequisites:* HSC mark 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.)

**Note/s:** Excluded MATH1032, MATH1042, MATH1131, MATH1141, ECON1202, ECON2200, ECON2201, ECON2202, ECON2290, ECON2291.

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*

CP15 S2 HPW6

*Prerequisite:* MATH1011 or MATH1131 or MATH1141

**Note/s:** Excluded MATH1032, MATH1042, MATH1231, MATH1241, ECON1202, ECON2200, ECON2201, ECON2202, ECON2290, ECON2291.

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.

**MATH1131****Mathematics 1A***Staff Contact: School of Mathematics First Year Office*

CP15 S1 or S2 HPW6

*Prerequisites:* HSC mark range required: 2 unit Mathematics (90-100), or 2 and 3 unit Mathematics (100-150) or 3 and 4 unit Mathematics (100-200) or MATH1011 (these ranges may vary from year to year). 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.  
**Note/s:** Excluded MATH1011, MATH1032, MATH1042, MATH1141, ECON1202, ECON2200, ECON2201, ECON2202, ECON2290, ECON2291.

Complex numbers, vectors and vector geometry, linear equations, matrices and matrix algebra, determinants. Functions, limits, continuity and differentiability, integration, polar coordinates, logarithms and exponentials, hyperbolic functions, functions of several variables. Introduction to computing and the Maple symbolic algebra package.

**MATH1231****Mathematics 1B***Staff Contact: School of Mathematics First Year Office*

CP15 S2 HPW6 or Summer Session HPW9

*Prerequisite:* MATH1131 or MATH1141

**Note/s:** Excluded MATH1021, MATH1032, MATH1042, MATH1241, ECON1202, ECON2200, ECON2201, ECON2202, ECON2290, ECON2291.

Vector spaces, linear transformations, eigenvalues and eigenvectors. Probability. Integration techniques, solution of ordinary differential equations, sequences, series, applications of integration.

**MATH1141****Higher Mathematics 1A***Staff Contact: School of Mathematics First Year Office*

CP15 S1 HPW6

*Prerequisites:* HSC mark range required: 2 and 3 unit Mathematics (145-150) or 3 and 4 unit Mathematics (186-200) (these numbers may vary from year to year).  
**Note/s:** Excluded MATH1011, MATH1032, MATH1042, MATH1131, ECON1202, ECON2200, ECON2201, ECON2202, ECON2290, ECON2291.

As for MATH1131 but in greater depth.

**MATH1241****Higher Mathematics 1B***Staff Contact: School of Mathematics First Year Office*

CP15 S2 HPW6

*Prerequisite:* MATH1131 or MATH1141, each with a mark of at least 70.

**Note/s:** Excluded MATH1021, MATH1032, MATH1042, MATH1231, ECON1202, ECON2200, ECON2201, ECON2202, ECON2290, ECON2291.

As for MATH1231 but in greater depth.

## Medicine

Servicing Subject 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)*  
CP5 F HPW1

**Note/s:** Students normally take the subject in Year 4 of course 3950. Restricted to 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 Subject only: taught within a course offered by another faculty.

### PATH3202

#### Mechanisms of Human Disease

*Staff Contact: Professor C Geczy*  
CP30 F

**Prerequisites:** Enrolment in the Advanced Science Program. Advantage in having previous understanding of anatomy (ANAT2211, ANAT2111), physiology (PHPH2112), biochemistry (BIOS1201, BIOC2372), immunology or equivalent.

Lectures, tutorials, practical classes and research/casebook projects aimed at increasing understanding of the molecular basis of disease with particular emphasis on classification of disease processes, clinical outcomes and disease prevention. Comparisons between normal and abnormal cell/tissue and organ function will be made. Includes processes of cell and tissue degeneration, acute and chronic inflammation, infection, thrombosis, infarction, embolism and ischaemia. Particular examples include diseases of practical importance such as pneumonia, tuberculosis, arthritis, lung and myocardial infarction. Skin wounds and fractures will be used to illustrate healing and regeneration. Aberrations of cell growth introduces neoplasia and carcinogenesis with examples of common tumours. The impact of modern biology on understanding disease mechanisms will be demonstrated in practical classes and projects which complement the lectures.

## Physiology and Pharmacology

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

### PHPH2112

#### Physiology 1

*Staff Contact: Dr J Morley*  
CP30 F HPW6

**Prerequisites:** BIOS1101, BIOS1201; CHEM1101 and CHEM1201; MATH1131 or MATH1141 or MATH1011; MATH1231 or MATH1241 or MATH1021.

**Corequisites:** Either BIOC2101 and BIOC2201 or BIOC2181 and BIOC2291

**Note:** Student numbers in Physiology 1 are subject to a quota, 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 specialised 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 programs.

### PHPH2122

#### Principles of Physiology (Optometry)

*Staff Contact: Dr J Morley*  
CP30 F HPW6

**Note/s:** 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.

### PHPH3121

#### Membrane and Cellular Physiology

*Staff Contact: Prof P Barry*  
CP15 S1 HPW6

**Prerequisites:** PHPH2112, BIOC2101 and BIOC2201 or BIOC2181 and BIOC2291

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 the mechanisms underlying muscle contraction. Stress on modern research techniques, underlying principles of molecular physiology and on a critical examination of appropriate research papers.

**PHPH3131****Neurophysiology***Staff Contact: Prof M Rowe*

CP15 S1 HPW6

*Prerequisites:* PHPH2112, BIOC2101 and BIOC2201 or BIOC2181 and BIOC2291

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.

**PHPH3151****Introductory Pharmacology and Toxicology***Staff Contact: A/Prof M Murray*

CP15 S1 HPW6

*Prerequisites:* PHPH2112, BIOC2101 and BIOC2201 or BIOC2181 and BIOC2291

Includes a study of the fundamentals of drug action, such as dose-response methods, receptor binding, drug absorption, distribution and metabolism. Further material on drug analysis and adverse effects of drugs will be presented. Segments dealing with aspects of chemical toxicology and the requirements of government agencies for the registration and evaluation of toxic chemicals will be covered. The practicals will cover basic pharmacological methods.

**PHPH3251****Clinical and Experimental Pharmacology***Staff Contact: A/Prof M Murray*

CP15 S2 HPW6

*Prerequisites:* PHPH2112, BIOC2101 and BIOC2201 or BIOC2181 and BIOC2291 and PHPH3151

The subject deals with the pharmacology of drug classes, with emphasis on mode of drug action. Effects of drugs on the major organs, including the cardiovascular system, kidney, endocrine systems, and the central nervous system, will be covered. Students will be introduced to recent innovations in drug development and emerging therapeutic strategies based on advances in understanding cellular physiology and drug action. The practicals will cover basic pharmacological methods from both clinical and experimental standpoints.

**PHPH3211****Cardio-respiratory and Exercise Physiology***Staff Contact: A/Prof M Perry*

CP15 S2 HPW6

*Prerequisites:* PHPH2112 and either BIOC2101 and BIOC2201, or BIO2372 or BIOC2181 and BIOC2291

An advanced course which emphasises function and control of the cardiovascular system; gas exchange in the

lung and blood gas carriage in the respiratory system and work capacity, preventive medicine and laboratory testing in exercise physiology. Extensive practical components involve mammalian preparations and human subjects.

**PHPH3221****Endocrine, Reproductive and Developmental Physiology***Staff Contact: Dr G Simonetta*

CP15 S2 HPW6

*Prerequisites:* PHPH2112 and either BIOC2101 and BIOC2201, or BIO2372 or BIOC2181 and BIOC2291

There are three major components to this subject, which consists of lectures, practical classes, tutorial and case studies. The first component of the course is a study of neuroendocrinology, molecular and systematic endocrinology, and of the endocrinology of exercise and disease. The second component of the subject deals with female and male reproductive physiology. The third component of the subject details the physiology of pregnancy, and that of the fetus and the newborn.

**PHPH4218****Physiology 4 Honours – Full Time***Staff Contact: Dr B Nail*

CP120

**PHPH4224****Physiology 4 Honours – Part Time***Staff Contact: Dr B Nail*

CP60

**Note/s:** 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****Pharmacology 4 Honours – Full Time***Staff Contact: Dr B Nail*

CP120

**PHPH4264****Pharmacology 4 Honours – Part Time***Staff Contact: Dr B Nail*

CP60

**Note/s:** Completion of program 7301 including 7 Level III 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*

CP30 F HPW6

*Prerequisites:* HSC mark range required: 2 unit Mathematics 90-100, or 3 unit Mathematics 1-50, or 4 unit Mathematics 1-100 or (for PHYS1002 only) MATH1011, and 2 unit Science (Physics) 65 -100, or 2 unit Science (Chemistry) 75 -100, or 3 unit Science 100 -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).  
*Corequisite:* One of MATH1011 or MATH1131 or MATH1141 and one of MATH1021 or MATH1231 or MATH1241

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 Kirchoff'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 polarisation.

### PHYS1022

#### Physics 1 (For Health and Life Scientists)

*Staff Contact: First Year Director*

CP30 F HPW6

*Corequisites:* One of MATH1011 or MATH1131 or MATH1141 and one of MATH1021 or MATH1231 or MATH1241

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 P Ward*

CP15 F HPW3

**Note:** Restricted to combined degree course 3821.

*Objectives:* To provide students with key concepts in the five main topic areas and demonstrate the practical application of these concepts in medical practice. The five main topic areas are: research methods in behavioural sciences, psychology in relation to medicine, sociology in relation to medicine, bioethics and human sexuality. Students are thus encouraged to develop an understanding of human behaviour as the result of the complex interaction of a number of factors so that they are more likely to appreciate and respect their patients and colleagues as persons. Taught in both sessions. Didactic material and some case material is presented in lectures and the tutorial program is structured to consolidate this information, frequently using discussion of specific case examples. Emphasis is placed on developing skills in clear professional communication, with feedback on written assignments, tutorial presentations, and encouragement to use visual aids in presentations. Specific topics covered include: risk behaviours; anxiety; stigma; social class and health; the sexual response and how it changes across the lifespan; and a range of bioethical topics including human and animal experimentation, euthanasia, the doctor and the state.

A handbook for the course is produced each session and may be borrowed from the Biomedical Library Closed Reserve or purchased from the School of Psychiatry.

*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.

## Graduate Enrolment Procedures

All students enrolling in postgraduate courses should obtain a copy of the free booklet *Re-enrolling 1999* available from the School Offices and the Admissions Office. This booklet provides detailed information on enrolment procedures and fees, enrolment in miscellaneous subjects, locations and hours of cashiers and late enrolment details. Students interested in undertaking a postgraduate course should consult the appropriate Head of School or the Postgraduate Administrative Officer, Office of the Dean.

## Graduate Courses

At the postgraduate level, study may be undertaken for the award of the following:

### Doctorates

Doctor of Medicine (MD)  
Doctor of Philosophy (PhD)

### Masters

Master of Clinical Education (MClinEd)  
Master of Community Health (MCH)  
Master of Community Paediatrics (MCommPaed)  
Master of Medical Science in Drug Development (MMedSc)  
Master of Health Administration (MHA)  
Master of Health Planning (MHP)  
Master of Health Professions Education (MHPEd)  
Master of Medicine (MMed)  
Master of Psychological Medicine (MPM)  
Master of Public Health (MPH)  
Master of Science (MSc)  
Master of Sports Medicine (MSpMed)  
Master of Surgery (MS)

### Graduate Diplomas

Graduate Diploma in Clinical Education (GradDipClinEd)  
Graduate Diploma in Community Paediatrics (GradDipCommPaed)  
Graduate Diploma in Drug Development (GradDipDD)  
Graduate Diploma in Geriatric Medicine (GradDipGeriMed)  
Graduate Diploma in Health Professions Education (GradDipHPEd)  
Graduate Diploma in Paediatrics (GradDipPaed)  
Graduate Diploma in Public Health (GradDipPH)  
Graduate Diploma in Sports Medicine (GradDipSpMed)

### Graduate Certificates

Graduate Certificate in Drug Development (GradCertDD)  
Graduate Certificate in Geriatric Medicine (GradCertGeriMed)  
Graduate Certificate in Health Professions Education (GradCertHPEd)  
Graduate Certificate in Health Services Management (GradCert)  
Graduate Certificate in Public Health (GradPHCert)  
Graduate Certificate in Sports Medicine (GradCertSpMed)

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

## Advice to Graduate Students on Computing Requirements

Students are advised that satisfactory completion of postgraduate programs does not require enrolled students to purchase a personal computer.

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## Course Outlines

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### Faculty Research Degrees

Doctor of Medicine  
 Doctor of Philosophy  
 Master of Science  
 Master of Surgery

#### Doctor of Medicine MD

This degree is a research program requiring a candidate to make an original and meritorious contribution to some branch of medicine. The course may be completed by:

- thesis with supervision
- thesis without supervision
- published work

#### Doctor of Philosophy PhD

This is a degree requiring an original and significant contribution to knowledge in an approved area.

#### Master of Science MSc

This is the main Masters level research course for postgraduate students in the Faculty of Medicine. Candidates must demonstrate ability to undertake research by the submission of a thesis embodying the results of an original investigation. The course may be undertaken either with or without supervision.

#### Master of Surgery MS

The degree of Master of Surgery may be awarded to a candidate who has made an original contribution to knowledge in some field related to surgery. Generally, candidates must have at least three years' experience.

Other research degrees are offered by Schools of the Faculty.

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### School of Community Medicine

The School offers programs of study leading to the award of the following degrees:

- Master of Community Health by research or by formal coursework
- Graduate Certificate in Geriatric Medicine
- Graduate Diploma in Geriatric Medicine
- Masters of Medicine (Geriatrics) by Research
- Masters of Medicine (Geriatrics) by Coursework

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#### 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 during the course.

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 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 course work subjects to a total of 120 credit points (five credit points are equivalent to one class contact hour per week). These must include all three subjects in Group A and at least one of the subjects in Group B. The major project is equivalent to 60 credit points.

**Group A**

		<b>CP</b>
CMED9500	Epidemiology	15
CMED9513	Applied Epidemiology	10
CMED9502	Statistics for Public Health	15

**Group B**

CMED9517	Advanced Biostatistics and Statistical Computing	10
CMED9518	Case Studies in Epidemiology	10
CMED9519	Demography	10

**Academic Electives**

CMED9100	Independent Studies	10
CMED9516	Introduction to Public Health	10
CMED9600	Disability	10
CMED9602	Health and Illness Behaviour	10
CMED9603	Communication and Writing in Health	10
CMED9604	Tobacco, Alcohol and Other Drug Issues	10
CMED9605	Health in Developing Countries	10
CMED9606	Women and Health	10
CMED9607	Researching Women's Health	10
CMED9608	Rural Health Studies 1	10
CMED9610	Food and Nutrition Policy Studies	10
CMED9611	Health of the Elderly	10
CMED9612	Environmental Health	10
CMED9613	Health and Public Policy	10
CMED9615	Community Health Services	10
CMED9617	Community Paediatrics	10
CMED9618	Public Health Law and Ethics	10
CMED9619	Evaluation of Primary Health Services	10

CMED9620	Project Management and Evaluation in Rural Areas	10
CMED9621	HIV/AIDS: Challenging and Changing Health Care Systems	10
CMED9624	Mass Media in Public Health	10
CMED9625	Advanced Research Methods in Health Promotion	10
CMED9626	Inequalities and Health	10
CMED9627	Audit and Quality Assurance in Primary Care	20
CMED9630	Developing Health Services for Indigenous Australians	10
CMED9631	Project in Aboriginal Health	10
CMED9632	Project Design and Monitoring in Effective Health Care	10

The research project, CMED9506 Major 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.

**7364****Graduate Certificate in Geriatric Medicine****GradCertGeriMed**

*Prerequisites:* MB BS (or equivalent) and 1 year of clinical experience. Candidates require basic computer skills.

The Graduate Certificate in Geriatric Medicine is designed for medical practitioners who wish to upgrade their skills and knowledge in the area of aged care medicine.

The program is offered by means of a distance education package. In order to undertake the course, candidates require a computer with the following specifications: 486 DX or Macintosh LC75 (minimum); 8 MB RAM (minimum); sound card and speakers; CD-ROM; modem (fast); Internet access and web browser. Basic computer skills are assumed. Upon enrolment, candidates are invited to attend a one day seminar (non-compulsory) held in association with the biomedical librarians, UNSW. During this seminar, candidates will learn the necessary skills to use the Internet effectively, and to access a number of medical data bases, on-line medical journals and document delivery systems.

The bulk of the coursework is supplied to candidates, by mail, in printed form. Some course material and activities for assessment will be accessed via the Internet, CD-ROM or through teleconferencing. Each 15 credit point subject provides candidates with the equivalent of 3 hours of lecture material weekly for a 14 week semester.

Students are required to satisfactorily complete the following coursework subjects:

		CP
CMED9545	Clinical Geriatrics	30
CMED9539	Psychogeriatrics	15
<i>and one only of the following:</i>		
CMED9543	Organisation and Delivery of Health Services	15
CMED9544	Gerontology	15
CMED9540	Pharmacology	15
CMED9541	Rehabilitation	15
CMED9542	Healthy Ageing	15

These subjects may be offered in the first and/or second semester depending on demand. Assessment will be undertaken through a combination of multiple choice and short answer questions, clinical case scenarios and assignments. At the conclusion of the coursework, candidates must also be successful in a clinical exam (oral) which is held in Sydney.

Candidates awarded the Graduate Certificate in Geriatric Medicine are eligible to undertake further study for the Graduate Diploma in Geriatric Medicine or the Master of Medicine (Geriatrics) by coursework.

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## 5506

### Graduate Diploma in Geriatric Medicine

#### GradDipGeriMed

**Prerequisite:** MB BS (or equivalent) and 1 year of clinical experience.

The Graduate Diploma in Geriatric Medicine is designed for medical practitioners who wish to upgrade their skills and knowledge in the area of aged care medicine. The program is offered by means of a distance education package. In order to undertake the course, candidates require a computer with the following specifications: 486 DX or Macintosh LC75 (minimum); 8 MB RAM (minimum); sound card and speakers; CD-ROM; modem (fast); Internet access and web browser. Basic computer skills are assumed. Upon enrolment, candidates are invited to attend a one day seminar (non-compulsory) held in association with the biomedical librarians, UNSW. During this seminar, candidates will learn the necessary skills to use the Internet effectively, and to access a number of medical data bases, on-line medical journals and document delivery systems.

The bulk of the coursework is supplied to candidates, by mail, in printer form. Some course material and activities for assessment will be accessed via the Internet, CD-ROM or through teleconferencing. Each 15 credit point subject provides candidates with the equivalent of 3 hours of lecture material weekly for a 14 week semester.

Students are required to satisfactorily complete the following coursework subjects:

		CP
CMED9545	Clinical Geriatrics	30
CMED9539	Psychogeriatrics	15
CMED9543	Organisation and Delivery of Health Services	15
CMED9544	Gerontology	15
CMED9540	Pharmacology	15
CMED9541	Rehabilitation	15
CMED9542	Healthy Ageing	15

These subjects may be offered in the first and/or second semester depending on demand. Assessment will be undertaken through a combination of multiple choice and short answer questions, clinical case scenarios and assignments. At the conclusion of the coursework, candidates must also be successful in a clinical exam (oral) which is held in Sydney.

Candidates awarded the Graduate Diploma in Geriatric Medicine are eligible to undertake further study for the Master of Medicine (Geriatrics) by coursework.

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## 2815

### Master of Medicine (Geriatrics) by Research

#### MMed (Geriatrics)

The Master of Medicine (Geriatrics) course by research is available to candidates who have:

1. completed an undergraduate medical degree from UNSW or a qualification considered equivalent by the Faculty of Medicine Higher Degree Committee, and
2. at least three years' relevant clinical experience.

The course is available on a full time, part time or external basis. Students may elect to complete their thesis either with or without supervision. However, candidates who wish to enrol without supervision must have completed an undergraduate medical degree from UNSW.

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## 9025

### Master of Medicine (Geriatrics) by Coursework

#### MMed

The Master of Medicine (Geriatrics) course is designed for medical practitioners who wish to upgrade their skills and knowledge in the area of aged care medicine and who have at least one year of clinical experience. Candidates require basic computer skills. The course is offered by means of a distance education package. In order to undertake the course, candidates require a computer with the following specifications: 486 DX or Macintosh LC75 (minimum); 8 MB RAM (minimum); sound card and



speakers; CD-ROM; modem (fast); Internet access and web browse. Basic computer skills are assumed. Upon enrolment, candidates are invited to attend a one day seminar (non-compulsory) held in association with the biomedical librarian, UNSW. During this seminar, students will learn the necessary skills to use the Internet effectively, and to access a number of medical databases, on-line medical journals and document delivery systems.

The Master of Medicine (Geriatrics) degree requires completion of one year full-time coursework, plus a major project and supervised clinical experience. The degree may be undertaken on a part-time basis.

**Coursework:** The bulk of the coursework is supplied to candidates by mail, in printed form. Some course material and activities for assessment will be accessed via the Internet, CD-ROM or through teleconferencing. Each 15 credit point subject provides candidates with the equivalent of 3 hours of lecture material weekly for a 14 week semester.

Students are required to satisfactorily complete the following coursework subjects:

		<b>CP</b>
CMED9545	Clinical Geriatrics	30
CMED9539	Psychogeriatrics	15
CMED9543	Organisation and Delivery of Health Services	15
CMED9544	Gerontology	15
CMED9540	Pharmacology	15
CMED9541	Rehabilitation	15
CMED9542	Healthy Ageing	15

These subjects may be offered in first and/or second semester depending on demand. Assessment is undertaken through a combination of multiple choice and short answer questions, clinical case scenarios and assignments. At the conclusion of the coursework, students must also be successful in a clinical exam (oral) which is held in Sydney.

CMED9547	Clinical Experience	20
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140 hours of supervised clinical work to be carried out at geriatric units approved by the School of Community Medicine, UNSW. These placements will be arranged in association with the candidates. Overseas candidates are required to undertake their clinical attachments in Sydney. Candidates must maintain a logbook documenting clinical cases seen, and this logbook forms the basis of the assessment of clinical experience.

CMED9546	Major Research Project	40
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Candidates are required to submit a major project on an approved topic.

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## School of Health Services Management

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### 2960

#### Master of Health Administration (by Research)

##### Master of Health Administration MHA

Facilities are available in the School for students to undertake research studies leading to the degree of Master of Health Administration, 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 a minimum of three years experience in their proposed field of study within the health or hospital services. Enquiries should be directed to the the Research Studies Co-ordinator, Dr Mary-Louise McLaws, e-mail: m.mclaws@unsw.edu.au.

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### 8900

#### Master of Health Administration (by Formal Course Work)

##### Master of Health Administration MHA

The degree course has been designed to provide students with the essential knowledge required for senior managerial and planning work in the health services. The objective of the course is to develop graduates who are: 1. competent general and financial managers, 2. competent planners, 3. knowledgeable about public health (the health status of the Australian and other communities) and the structure, organisation and financing of health care systems, 4. knowledgeable about society, law and ethics, 5. competent in quantitative skills.

The degree is awarded on the successful completion of the program outlined below. The program may be taken on a full-time or part-time basis, internal basis or external basis (including compulsory residential schools) or on a distributed basis (mixture of full-time, part-time and external). External studies are not generally offered to students resident in the Sydney region. Applications based on difficulty of travel will be considered.

The normal time for completion of the full-time course is three academic sessions. However, students may be allowed to complete the degree in two academic sessions provided they have a four year undergraduate degree (or

equivalent) and in excess of three years experience in the health field. The maximum time for completion of the course is eight academic sessions.

The normal time for completion of the course for part-time internal and external students is six academic sessions (three calendar years).

Students must complete 12 subjects or the equivalent to a total of 150 credit points.

Applicants are required to have completed a minimum three year degree and to have a minimum of three years postgraduate experience preferably in a health-related field.

Those students who are inexperienced (ie less than three years) particularly in the health service area, are required to undertake a planned program of field experience (HEAL9531 Fieldwork in Health Service Organisation) in addition to the 12 subjects.

Electives are chosen by the student in consultation with the Head of the School of Health Services Management (or nominee) from graduate subjects offered within the University or by another tertiary institution. The approval of the relevant Head of School is required to undertake an elective offered outside the School of Health Services Management.

### Course Structure

The course is divided into two components, for a total of 150 credit points. These components are:

Core subjects (6) 90 credit points  
Elective subjects (6) 60 creditpoints

In selecting elective subjects: students can choose subjects relating to their expected field of work; can choose to undertake advanced study in a particular discipline (eg Health Policy and Management); and/or can take elective subjects relevant to their own interests and needs.

### Core Subjects

This compulsory component comprises the six core subjects of 15 credit points each. Students must complete the following six subjects as a requirement for graduation. Exceptions can only be granted by the Head of School on the basis of demonstrated equivalent masters level coursework previously undertaken.

HEAL9011	Statistics and Epidemiology
HEAL9041	Health Care Systems
HEAL9071	Health Care Financial Management
HEAL9351	Health Economics
HEAL9421	Public Health and Epidemiology
HEAL9711	Management of Organisations

## 8940

### Master of Health Planning

#### Master of Health Planning MHP

The course is designed to provide students from countries with developing economies and health systems with the knowledge and skills to be competent health service planners, policy makers and managers. For students from developed health systems involved in international health, this course will enable them to focus and develop relevant planning and management knowledge from within a development framework.

The degree is awarded on the successful completion of the program outlined below. The program may be taken on a full-time or part-time basis, internal basis or external basis (including compulsory residential schools) or on a distributed basis (mixture of full-time, part-time and external). External studies are not generally offered to students resident in the Sydney region. Applications based on difficulty of travel will be considered.

The normal time for completion of the full-time course is two academic sessions. The maximum time for completion of the course is eight academic sessions. The normal time for completion of the course for part-time internal and external students is four academic sessions (two calendar years).

Students must complete 9 subjects, or the equivalent, to a total of 120 credit points.

Applicants are required to have completed an appropriate undergraduate degree or approved equivalent and to have a minimum of three years postgraduate experience preferably in a health-related field. Those students who are inexperienced (ie less than three years) particularly in the health service area, are required to undertake a planned program of field experience (HEAL9531 Fieldwork in Health Service Organisation) in addition to the 9 subjects.

Electives are chosen by the student in consultation with the Head of the School of Health Services Management (or nominee) from graduate subjects offered within the University or by another tertiary institution. The approval of the relevant Head of School is required to undertake an elective offered outside the School of Health Services Management. Requests for exemption and substitution for previous postgraduate subjects taken will be considered subject to approval of the Faculty of Medicine.

### Course Structure

The course is divided into two components, for a total of 120 credit points. These components are:

Core subjects (6) 90 credit points  
Elective subjects (3) 30 creditpoints

In selecting elective subjects students can choose from a wide range of subjects relating to their expected field of work; can choose to undertake advanced study in a

particular discipline (eg Health Policy and Management) and/or can take elective subjects relevant to their own interests and needs.

## Core Subjects

This compulsory component comprises the six core subjects of 15 credit points each. Students must complete the following six subjects as a requirement for graduation. Exceptions can only be granted by the Head of School on the basis of demonstrated equivalent masters level coursework previously undertaken.

		CP
HEAL9071	Health Care Financial Management 1	15
HEAL9422	Population Health, Epidemiology and Statistics	15
HEAL9442	Health Resources Planning and Development	15
HEAL9471	Comparative Health Care Systems	15
HEAL9711	Management of Organisation	15
MEED9015	Health Services Development and Implementation	15

## Elective Subjects

These subjects are provided for illustrative purposes. There is a large number of subjects available to choose from.

		CP
HEAL9371	Research and Evaluation Methods	10
HEAL9381	Policy Studies	10
HEAL9811	Sociology, Ethics and Health	10
MEED9010	Community Development	10
MEED9108	Program Evaluation and Planned Change	10
MEED9111	The Consultation Process	10
MEED9140	Project Design Monitoring in International Health	10

## 7360

## Graduate Certificate in Health Services Management

### GradCert

The Graduate Certificate provides recognition to students who are limited to study for one session or one year only. It will be awarded to a candidate who has satisfactorily completed the program of study outlined below. If students make satisfactory progress they may apply, on a competitive basis, to enter the MHA or MHP. Should students be successful in obtaining entry to the MHA or MHP program they will be expected to complete the remaining eight Masters subjects successfully before they can be awarded a Masters degree. In this case students will not be awarded the certificate, that is you cannot be

awarded both the Graduate Certificate in Health Services Management and an MHP or MHA degree.

The Graduate Certificate is available on an internal and external basis (compulsory residential schools plus correspondence) and it may be undertaken on a part-time (two academic sessions or one year) or full-time (one academic session) basis.

## Sequence and Duration Of Course

Candidates are required to satisfactorily complete a minimum of four subjects or the equivalent to a total of 50 credit points. One subject must normally be taken from each of the four groups of subjects listed below, however, subject to the approval of Head of School or delegate, alternative programs of study may be considered.

1. Management Studies	CP
HEAL9701	Management of the Work of Health Professionals 10
HEAL9711	Management of Organisations 15
HEAL9741	Management of Health Services 10
HEAL9391	Health Services Strategic Management and Planning 10

2. Health Related Studies	
HEAL9421	Public Health and Epidemiology 15
HEAL9041	Health Care Systems 15
HEAL9411	Epidemiology 10
HEAL9811	Sociology, Ethics and Health 10
HEAL9381	Policy Studies 10

3. Quantitative and Financial Studies	
HEAL9011	Statistics and Epidemiology 15
HEAL9071	Health Care Financial Management 1 15
HEAL9351	Health Economics 1 15

4. Health Service Studies	
HEAL9331	Health Related Law and Jurisprudence (Australia) 10
HEAL9341	Health Related Law and Jurisprudence (Hong Kong)
HEAL9301	Health Services Planning 1 10
HEAL9371	Research and Evaluation Methods 10 (subject to successful completion of HEAL9411 or its equivalent)
HEAL9111	Quality Assurance for Health Administrators 10

## Qualifications For Admission

1. Candidates will have been awarded a Bachelor's degree in an appropriate discipline from a recognised tertiary institution, and

2. Candidates will have a minimum of three years experience in health services of a kind acceptable to the School Admission Committee.

In exceptional cases an applicant who submits evidence of such other academic and professional qualifications may be admitted.

No credits, exemptions or advanced standing will be granted for the Graduate Certificate.

### Non-Award Students

Non-Award students enrolled on an external basis in subjects of the MHA, MPH or MHP degree course are required to meet all the conditions for the completion of each subject, including attendance at lectures in the subject at a residential school.

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## School of Medical Education

The School offers programs of study either by research or by formal course work leading to the award of the following degrees:

Master of Clinical Education

Master of Health Professions Education by Research or Coursework

Graduate Diploma in Clinical Education

Graduate Diploma in Health Professions Education

Graduate Certificate in Health Professions Education

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### 2885

#### Master of Health Professions 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 during the course.

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 this original investigation.

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### 9000

#### Master of Health Professions Education by 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. Admission to the Master of Health Professions 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.

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 the four nominated subjects listed below, plus additional academic electives and/or independent studies to give a total of 130 credit points. Five credit points are equivalent to one class contact hour per week.

#### Core Subjects

		CP
MEED9132	Professional and Scientific Inquiry	15
MEED9133	Learning, Teaching and Assessment	15
MEED9134	Developing Learning Organisations	15
MEED9135	Planning, Implementing and Evaluating Educational Programs	15

#### Academic Electives

Electives are designed to enable candidates to pursue their own interests or specialties by taking subjects, normally at a postgraduate 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 postgraduate subjects offered by other schools of the University, in which case the approval of the Head of the School must be obtained.

		CP
MEED9010	Community Development	10
*MEED9012	Health Promotion	10
*MEED9013	Influencing Health Beliefs and Health Behaviours	10
MEED9102	Educational Process in Small Groups	10
MEED9103	Instructional Design	10
MEED9106	Teaching Skills	10
MEED9107	Assessment of Students	10
MEED9108	Program Evaluation and Planned Change	10
MEED9110	Workshop in Culture, Subculture and Communication	10
MEED9111	The Consultation Process	10
MEED9113	Evaluation of Instructors	10
MEED9115	Educational Selection	5

MEED9120	Qualitative Research Methods in Health Promotion	10
MEED9122	Primary Health Care	10
MEED9123	Production of Audio Visual Materials	10
MEED9124	Clinical Teaching	5
MEED9125	Planning, Conducting and Evaluating Educational Workshops	10
MEED9126	Self Directed Learning and Self-instruction	10
MEED9127	Research in Education for the Health Professions	15
MEED9129	Primary Health Care: Issues in Implementation	10
MEED9131	Formulating Academic Proposals and Projects	10
MEED9143	Project	50

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 Professions Education

#### GradDipHPed

Admission to the Graduate Diploma in Health Professions 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. Students are required to undertake the four core subjects listed for the MHPEd, plus additional academic electives and/or independent studies to give a total of 100 credit points.

## 7377

### Graduate Certificate in Health Professions Education

#### GradCertHPed

Admission to the Graduate Certificate in Health Professions Education requires a Bachelors degree of at least three years duration (or equivalent) and relevant experience in teaching and/or administration. Students are required to take at least one of the foundation subjects in the Graduate Diploma of Health Professions Education course plus additional foundation subjects and/or electives to a total of 60 credit points.

## 9050

### Master of Clinical Education by Distance Education

#### MClinEd

## 5501

### Graduate Diploma in Clinical Education by Distance Education

#### GradDipClinEd

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 120 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 100 credit points together with 100 hours of clinical teaching practice.

Subjects to be offered within the distance education programs are:

	CP
MEED9302	Learning in Small Groups 10
MEED9303	Clinical Practice as a Discipline 10
MEED9304	Learning Clinical Reasoning 15
MEED9305	Learning from Experience 10
MEED9306	Clinical Supervision 10
MEED9307	Exploring Clinical Ethics 10
MEED9308	Learning Clinical Decision Making 10
MEED9309	Assessment of Clinical Performance 10
MEED9310	Evaluation of Clinical Teaching 10
MEED9311	Patient and Family Education 10
MEED9312	Research into Clinical Education 15
MEED9313	Planning Educational Programs 10
MEED9314	The Ward (or Office) as a Social and Learning Environment 10
MEED9315	Clinical Teaching 15
MEED9316	Learning Consulting Skills 15
MEED9317	Clinicians as Managers 10

MEED9351	Independent Study (5 credit points)	5
MEED9352	Independent Study (10 credit points)	10
MEED9353	Independent Study (15 credit points)	15
MEED9354	Independent Study (20 credit points)	20
MEED9360	Major Project	60

## The Centre for Public Health

The Centre brings together the resources of the Schools of Community Medicine, Health Services Management and Medical Education. The Centre is also a partner in the Sydney Public Health Consortium with the Department of Public Health and Community Medicine at the University of Sydney, where candidates may undertake up to 50% of their course work.

The Centre offers programs of study in Public Health either by research or by coursework leading to the awards of the following degrees: Graduate Certificate of Public Health, Graduate Diploma of Public Health and Master of Public Health.

### 2845

#### Master of Public Health by Research

##### MPH

Students applying for admission to the MPH by research 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. It can be undertaken full-time or part-time; through internal or external mode.

### 9045

#### Master of Public Health by Course Work

##### MPH

The Master of Public Health course provides preparation for education, research and service in all aspects of public health. The course includes study in epidemiology, quantitative and qualitative research methods, health services management, health promotion, development and education in health, as well as a systematic review of topical public health issues. It is designed to address the continuing education needs of specialists in public health as well as providing a general orientation to public health issues and methods for the health professions.

Applicants are required to have completed a bachelor degree in a health-related discipline and to have at least three years experience in a health or health-related field.

##### Course Structure

The MPH course is offered in a full-time (minimum three academic sessions), part-time and external\* modes.

The course is divided into three components, for a total of 180 credit points. These components are:

Core subjects	70 credit points
Elective subjects	60 credit points
Major project	50 credit points

In selecting elective subjects; students can choose among areas of concentration related to their expected field of work (e.g. Health Promotion); can choose to undertake advanced study in a particular discipline (e.g. Health Policy and Management); and/or can take elective subjects relevant to their own interests and needs.

##### Core Subjects

Students must complete the following five subjects as a foundation for further study. These core subjects are prerequisites for enrolment in many of the electives.

	CP
*CMED9500 Epidemiology	15
*CMED9516 Introduction to Public Health	10
*MEED9012 Health Promotion	10
*HEAL9061 Statistics for Public Health	15
*HEAL9751 Introduction to Management and Policy for Public Health	10

In addition, the core subject MEED9131 Formulating Academic Proposals and Projects (10CP) must be undertaken as preparation for the major project.

##### Elective Subjects

There are over 70 elective subjects offered in the three schools at the University of New South Wales. In addition, students may enrol in electives which are offered by other schools and academic units within the University of New South Wales, as well as subjects offered in the Department of Public Health and Community Medicine at the University of Sydney. Students may elect to undertake independent studies in any of the three Schools, to learn about a particular area or subject matter of special interest which is not offered in the formal program (CMED9100/1/2/4, HEAL9921/31/41, MEED9001/2/3/4).

The following elective subjects are offered:

##### School of Community Medicine

	CP
CMED9513 Applied Epidemiology	10
CMED9517 Advanced Biostatistics and Statistical Computing	10
CMED9518 Case Studies in Epidemiology	10
CMED9519 Demography	10
CMED9600 Disability	10
CMED9602 Health and Illness Behaviour	10
CMED9603 Communication and Writing in Health	10
CMED9604 Tobacco, Alcohol and Other Drug Issues	10

CMED9605	Health in Developing Countries	10
*CMED9606	Women and Health	10
*CMED9607	Researching Women's Health	10
*CMED9608	Rural Health Studies	10
*CMED9610	Food and Nutrition Policy Studies	10
CMED9611	Health of the Elderly	10
*CMED9612	Environmental Health	10
CMED9613	Health and Public Policy	10
CMED9615	Delivery of Health Services in the Community	10
CMED9617	Community Paediatrics	10
*CMED9619	Evaluation of Primary Health Services	10
*CMED9620	Project Management and Evaluation in Rural Areas	10
CMED9621	HIV/AIDS Challenging and Changing Health Care Systems	10
CMED9623	Health Informatics in Primary Care	10
CMED9626	Inequalities and Health	10
*CMED9627	Audit and Quality Assurance in Primary Care	20
*CMED9630	Developing Health Services for Indigenous Australians	10
*CMED9631	Project in Aboriginal Health	10
CMED9632	Project Design and Monitoring in Effective Health Care	10

#### School of Medical Education

MEED9010	Community Development	10
*MEED9013	Influencing Health Beliefs and Health Behaviours	10
MEED9102	Educational Process in Small Groups	10
MEED9103	Instructional Design	10
MEED9106	Teaching Skills	10
MEED9107	Assessment of Students	10
*MEED9108	Program Evaluation and Planned Change	10
MEED9110	Workshop in Culture, Subculture and Communication	10
MEED9111	The Consultation Process	10
MEED9113	Evaluation of Instructors	10
MEED9115	Educational Selection	5
MEED9120	Qualitative Research Methods in Health Promotion	10
MEED9122	Primary Health Care	10
MEED9123	Production of Audio-visual Materials	10
MEED9124	Clinical Teaching	5
MEED9125	Planning, Conducting, Evaluating Educational Workshops	10
MEED9126	Self Directed Learning and Self Instruction	10
MEED9127	Research in Education for Health Professions 1	10
MEED9129	Primary Health Care: Issues in Implementation	10
*MEED9133	Learning, Teaching and Assessment	15
MEED9134	Developing Learning Organisations	15
*MEED9135	Planning, Implementing & Evaluating Educational Programs	15
*MEED9140	Project Design & Monitoring in International Health	10

School of Health Services Management**		CP
*HEAL9041	Health Care Systems	15
*HEAL9071	Health Care Financial Management 1	15
*HEAL9081	Health Care Financial Management 2	10
*HEAL9111	Quality Assurance for Health Administrators	10
*HEAL9301	Health Services Planning 1	10
*HEAL9331	Health Related Law & Jurisprudence	10
*HEAL9341	Health Services Law 2	10
*HEAL9351	Health Economics	15
*HEAL9361	Physical Planning & Design	10
*HEAL9371	Research & Evaluation Methods	10
*HEAL9381	Policy Studies	10
*HEAL9391	Health Services Strategic Management and Planning	10
*HEAL9461	Management Information Systems	10
*HEAL9511	Special Topic in Health Administration or Planning	10
*HEAL9661	Current Issues in Nursing	10
*HEAL9701	Management of the Work of Health Professionals	10
*HEAL9711	Management of Organisation	15
*HEAL9741	Management of Health Services	10
*HEAL9743	Introduction to Casemix	10
*HEAL9744	Casemix Accounting and Funding	10
*HEAL9761	Mental Health Services Management	10
*HEAL9811	Sociology, Ethics and Health	10

\* These subjects are also available in distance education mode.

#### Major Project

The major project comprises in-depth study of a contemporary public health issue. Students are expected to demonstrate their ability to apply knowledge and skills gained in the course. It is normally undertaken in the third full-time (or part-time equivalent) session, that is, after completion of all core and elective subjects. Provisional topics for the (CMED9506, HEAL9973 AND MEED9142 ) major project will be determined in consultation with an academic adviser early in the course, and refined in MEED9131 Formulating Academic Proposals and Projects.

#### 5507

#### Graduate Diploma in Public Health

#### GradDipPH

The Graduate Diploma in Public Health comprises nine subjects from the Master of Public Health program, including the core subjects Introduction to Public Health (CMED9516), Epidemiology (CMED9500), Statistics (HEAL9061), Health Promotion (MEED9012) and Management of Public Health (HEAL9751), and four electives, to total 100 credit points.

7368

**Graduate Certificate in Public Health****GradCertPH**

The Graduate Certificate in Public Health comprises five subjects from the Master of Public Health program, and must include Introduction to Public Health (CMED9516), Epidemiology (CMED9500) and three other subjects (either core or electives) to total 55 credit points.

**School of Paediatrics**

5500

**Graduate Diploma in Paediatrics****GradDipPaed**

The course is taken over 1 year on a part-time basis. Candidates attend a course of lectures and grand rounds (approximately 1 hour per week).

The Graduate Diploma is awarded after satisfying the examiners in written and clinical examinations at the end of the course.

It must be noted that the Graduate Diploma of Paediatrics is intended for postgraduates 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 exempt from the clinical experience.

	<b>CP</b>
PAED9100 General Paediatrics and Child Health	48
PAED9104 Clinical and Technical Skills	12
PAED9105 Clinical Paediatric Experience 1	-

Students should note that if they have to repeat the year due to failure in one or more subjects, they must re-enrol in and satisfactorily complete all subjects in order to qualify for the Graduate Diploma.

5505

**Graduate Diploma in Community Paediatrics****GradDipCommPaed**

This course is designed for health professionals such as medical practitioners, nurses, psychologists, physiotherapists, social workers, who provide services to children. Candidates are required to hold a relevant bachelor's degree of three year's duration or equivalent prior to enrolment in the course. The course is aimed to equip candidates with an understanding of health needs of children in the community.

The Graduate Diploma in Community Paediatrics will be awarded after satisfactory completion of a programme of advanced study of the following 8 subjects which totals 110 credit points:

	<b>CP</b>
HEAL9061 Statistics for Public Health	15
PAED8201 Physical Growth and Development 1A	10
PAED8202 Physical Growth and Development 1B	10
PAED8102 Psychosocial Development	10
PAED8103 Child Health Services	10
PAED8104 The Effect of Social Adversity in Children	10
PAED8105 The Child and the Law	10
PAED8203 Infant Feeding and Nutrition 1	10
PAED8204 Infant Feeding and Nutrition 2	10
CMED9500 Epidemiology	15
<b>Total</b>	<b>110</b>

9015

**Master of Community Paediatrics****MCommPaed**

The degree of Master of Community Paediatrics will be awarded after satisfactory completion of a programme of advanced study of subjects which totals 230 credit points of which 110 credit points will be from the 8 major subjects prescribed for the Graduate Diploma in Community Paediatrics together with a major project report based on six months of research or clinical case studies in community paediatrics, electives to the value of 20 credit points taught in the Faculty of Medicine and an advanced study in growth and development. The project is planned during the period of formal coursework.

	<b>CP</b>
Elective(s)	20
PAED8108 Major Project	80
PAED8109 Physical Growth and Development II	20
<b>Total</b>	<b>120</b>



## School of Physiology and Pharmacology

The School offers programs of study leading to the awards of the degrees of Master of, Graduate Diploma and Graduate Certificate in Sports Medicine (in association with IPACE-Unisearch; Schools of Anatomy and of Community Medicine, Faculty of Medicine; School of Sport and Leisure Studies) by formal part-time course work delivered by distance education, the Master of Applied Science in Biopharmaceuticals (in conjunction with the School of Biotechnology) and the Master of Medical Science in Drug Development and the Graduate Diploma and Graduate Certificate in Drug Development.

9055

### Master of Sports Medicine

MSPMed

5503

### Graduate Diploma in Sports Medicine

GradDipSPMed

7378

### Graduate Certificate in Sports Medicine

### GradCertSPMed

The courses aim to equip medical practitioners with a rigorous understanding of the theory and practice of sports medicine in meeting the medical demands of people engaged in individual or team performance-related sporting activities and with the medical demands of people involved in health-related physical activities for the purposes of primary, secondary or tertiary prevention of disease processes.

The degree of Master of Sports Medicine will be awarded after the satisfactory completion of a program of advanced study of subjects (including clinical activities as prescribed) which totals 150 credit points.

135 credit points will accrue from nine compulsory subjects.

15 credit points will accrue from the completion of a Major Project and Report.

Completion is also required of a Sports Medicine Practicum consisting of a total of twelve days of approved, supervised clinical training and activities.

Satisfactory completion of a final clinical examination is also required.

The Graduate Diploma in Sports Medicine will be awarded after the satisfactory completion of a program of advanced study of subjects (including clinical activities as prescribed) which total 120 credit points from eight compulsory subjects (15 credit points each).

The Graduate Certificate in Sports Medicine will be awarded after the satisfactory completion of a program of advanced study of subjects (including clinical activities as prescribed) which totals 60 credit points from four compulsory subjects.

Other requirements will be the completion of a total of twelve days of approved, supervised clinical training and activities and the satisfactory completion of a final clinical examination.

CP

### Compulsory subjects for GradCert, GradDip, Masters

PHPH5413/5513	Sports Injuries 1	15
PHPH5423/5523	Sports Injuries II	15
PHPH5433/5533	Medical Applications of Exercise I	15
PHPH5443/5543	Medical Applications of Exercise II	15

### Compulsory subjects for GradDip, Masters

PHPH5414/5514	Sports Science	15
PHPH5426/5526	Applied Sports Medicine	15
PHPH5416/5516	Sports Nutrition/Sports Pharmacology	15
PHPH5417/5517	Sports Psychology/Clinical Biomechanics	15

### Compulsory subjects for Masters

PHPH5424	Research Methods (only for MSPMed)	15
PHPH5445	Research Project and Report (only for MSPMed)	15

### Further Activities

Sports Medicine Practicum

8043

## Master of Applied Science in Biopharmaceuticals

### MAppSc in Biopharmaceuticals

This is an interdisciplinary program designed principally for postgraduates with backgrounds in either pharmacology or biotechnology who wish to obtain advanced training in both areas in order to gain expertise necessary for the development and use of the new generation of biopharmaceuticals which have been developed by, or result from, the application of molecular biology.

It is open to postgraduates with a four year degree in a related discipline or who have, in the opinion of the Higher Degree Committee, acquired equivalent qualifications or experience. Prior study of biochemistry is required for the course.

The course consists of lectures, tutorials, practical sessions, case history studies and a supervised project. The minimum period of registration before the award of the degree is two sessions for full-time students and four sessions for part-time students. In 1996 the course will also be offered for part-time study by distance education.

An acceptable course would be a program of subjects involving a minimum of 18 hours per week for two sessions for full-time students or a minimum of 9 hours per week for four sessions for part-time students. Choice of units is dependent on the background of the student. Pharmacology Principles (PHPH5461) must be taken by students who have not completed an approved Pharmacology course, while Biotechnology Principles (BIOT7040) must be taken by students who have not completed an approved Biotechnology course program.

All students must pass Advanced Pharmacology (PHPH5471) and Advanced Biotechnology (BIOT7030). Course details are as follows:

		CP
PHPH5471	Advanced Pharmacology	24
BIOT7030	Advanced Biotechnology	24
PHPH5461	Pharmacology Principles	32
BIOT7040	Biotechnology Principles	32
BIOT7050	Biopharmaceuticals Project (Major)*	64
BIOT7060	Biopharmaceuticals Project (Minor)*	32
PHPH5481	Major Project Pharmacology *	64
PHPH5491	Minor Project Pharmacology *	32

\*Choose one project only.

A recommended program for full-time students with a Biotechnology background would then be:

PHPH5471	Advanced Pharmacology	24
BIOT7030	Advanced Biotechnology	24
PHPH5461	Pharmacology Principles	32
BIOT7050	Biopharmaceuticals Project (Major)	64

or

PHPH5481	Major Project Pharmacology	64
<b>Total</b>		<b>144</b>

A recommended program for full-time students with a Pharmacology background would then be:

PHPH5471	Advanced Pharmacology	24
BIOT7030	Advanced Biotechnology	24
BIOT7040	Biotechnology Principles	32
BIOT7050	Biopharmaceuticals Project (Major)	64

or

PHPH5481	Major Project Pharmacology	64
<b>Total</b>		<b>144</b>

### Elective Components

If a minor project is selected, additional elective subject(s) may be selected from those offered by the Department of Biotechnology or the School of Physiology and Pharmacology, or from those offered by other Schools in the University subject to approval.

Each individual course must be approved by the Higher Degree Committee of the Faculty of Applied Science and would comprise: (i) a major strand of related material comprising approximately 75% of the total program including a project comprising not less than 15% of the program (ii) a minor strand of broader based material comprising up to 25% of the total program.

## 9060

### Master of Medical Science in Drug Development

#### MMedSc

The discovery, development and marketing of medicines has become a highly organised interdisciplinary team activity. Members of such teams need to be literate in all aspects of drug development ranging from procedures for identifying lead compounds through to the full development of the product including preclinical studies, clinical trials and the legal, regulatory and ethical issues relevant to marketing and on-going vigilance of the medicine. The aim of this course is to enable people working in the field of developing and using pharmaceutical substances to obtain such expertise by providing core and elective materials in a distance-learning format. Since interchange of ideas is an essential part of any educational activity, the course will include interactive assignments with specific tutors and group discussions where students come together for tutorials, workshops and practice sessions, and generally to interchange ideas.

The educational principle governing the course's teaching approach is to streamline the provision of information and to concentrate on application. Thus, students are issued with a manual for each subject. The manual contains, typically, about 200-250 pages of lecture notes plus 200-250 pages of attachments from the literature (relevant chapters from textbooks, published papers, etc., Australian and overseas government regulatory and policy documents, etc.).

The Master of Medical Science in Drug Development will be awarded to students who successfully complete the coursework identified below. The course is offered as a part-time distance learning programme and will take a minimum of three years to complete. The course is designed for persons wishing to pursue careers that relate to the development and safe use of medicines. Career opportunities exist in the pharmaceutical manufacturing industry, government and in research institutions such as universities. Health care professionals interested in developing new medicines and improving the use of existing medicines will find the course of value. The extensive range of electives enables the candidate to specialise in particular areas such as the discovery of new medicines, regulatory affairs, clinical trials, market development, medical department administration, preclinical studies, etc.

Below is a list of core and elective modules for Master of Medical Science in Drug Development. Generally students must take all core subjects and sufficient electives to give a total of 174 credit points (CP) [i.e. 1440 postgraduate assessable hours (PAH)]. The course proceeds in three stages (I, II and III) which correspond to Years 1 to 3 for students proceeding in the minimum time. In special cases, students may replace core subjects with electives. Up to 240 PAH of elective material may be replaced with coursework-integrated or stand-alone projects. The minimum requirement for formal coursework is 1200 PAH where this is accompanied by 240 PAH of project work.

Subject No.	Subject	CP
PHPH9100	Discovery and Development of New Medicines	15
PHPH9101	Principles of Drug Action	15
PHPH9102	Pharmaceutical Formulation 1	15
PHPH9103	Clinical Trial and Data Analysis	15
PHPH9104	Law, Ethics and the Regulation of the Development and Use of Medicines	15
PHPH9105	Pharmacovigilance	15
PHPH9106	Pharmaceutical Information Services 1	7.5
PHPH9107	Therapeutics and the Molecular Basis of Disease 1	7.5
PHPH9108	Therapeutic Basis of Drug Use and Development 1	7.5
PHPH9109	Therapeutic Basis of Drug Use and Development 2	7.5
PHPH9110	Therapeutic Basis of Drug Use and Development 3	7.5
PHPH9111	Pharmaceutical Formulation 2	15
PHPH9112	Advanced Pharmacokinetics	15
PHPH9113	Advanced Regulatory Affairs	15
PHPH9114	Pharmacoeconomics	15
PHPH9115	Introduction of Clinical Trials Management	7.5
PHPH9116	Advanced Clinical Trials Management	15
PHPH9117	Pharmaceutical Manufacturing and Quality Control	15
PHPH9118	Therapeutics and the Molecular Basis of Disease 2	7.5
BIOM9410	Regulatory Requirements of Medical Technology (Devices)	12
BIOT7070	Production of Recombinant Products	14
BIOT7080	Principles of Fermentation and Downstream Processing	14
BIOT7090	Monoclonal Antibody Technology	14

distance learning program and will take a minimum of two years to complete. The course is designed for persons wishing to pursue careers that relate to the development and safe use of medicines. Career opportunities exist in the pharmaceutical manufacturing industry, government and in research institutions such as universities. Health care professionals interested in developing new medicines and improving the use of existing medicines will find the course of value. The extensive range of electives enables the candidate to specialise in particular areas such as the discovery of new medicines; regulatory affairs; clinical trials; market development; medical department administration; preclinical studies, etc.

To fulfil the course requirements, students must satisfactorily complete all of the core subjects as well as electives totalling 15 credit points.

### Core Subjects

Year 1		CP
PHPH9100	Discovery and Development of New Medicines 1	15
PHPH9101	Principles of Drug Action	15
PHPH9103	Clinical Trials and Data Analysis	15
PHPH9104	Law, Ethics and the Regulation of the Development and Use of Medicines	15
Year 2		
PHPH9102	Pharmaceutical Formulation 1	15
PHPH9105	Pharmacovigilance	15
PHPH9106	Pharmaceutical Information Services 1	7.5
PHPH9115	Clinical Trials Management	7.5
Electives		15

### Electives

PHPH9107	Therapeutics and the Molecular Basis of Disease I	7.5
PHPH9108	The Therapeutic Basis of Drug Use and Development I	7.5
PHPH9109	The Therapeutic Basis of Drug Use and Development 2	7.5
PHPH9110	The Therapeutic Basis of Drug Use and Development 3	7.5
PHPH9111	Pharmaceutical Formulation 2	15
PHPH9112	Advanced Pharmacokinetics	15
PHPH9113	Advanced Regulatory Affairs	15
PHPH9114	Pharmacoeconomics	15

### Notes:

1. The availability of elective modules may be subject to a minimum number of enrolments.
2. Students are advised to select electives that make an integrated theme according to their individual interests (e.g. regulatory affairs; clinical trials; market development; medical department administration; preclinical studies, etc).
3. Electives may also be chosen from the list offered in the Master of Applied Science in Biopharmaceuticals.

## 5504

### Graduate Diploma in Drug Development

#### GradDipDD

The Graduate Diploma in Drug Development will be awarded to students who successfully complete the following course. The course is offered as a part-time

**7370****Graduate Certificate in Drug Development****GradCertDD**

The Graduate Certificate in Drug Development will be awarded to students who successfully complete the following course work. This course has similar format and objectives to the Graduate Diploma but is designed for those people who wish to obtain a limited competency in the areas described. The course is offered as a part time distance learning program and will take a minimum of one year to complete.

		<b>CP</b>
PHPH9100	Discovery and Development of New Medicines 1	15
PHPH9101	Principles of Drug Action	15
PHPH9104	Law, Ethics and the Regulation of the Development and Use of Medicines	15
PHPH9103	Clinical Trials and Data Analysis	15

**School of Psychiatry****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 may be undertaken on a part time basis over four sessions, either by distance education or by attending the program at St.Vincent's campus. Candidates are required to complete the following program.

**Nominated Subjects****Year 1**

<i>Session 1</i>		<b>CP</b>
PSCY9106	Psychological Medicine 1	25

<i>Session 2</i>		
PSCY9107	Psychological Medicine 2	25

**Year 2**

<i>Session 1</i>		
PSCY9208	Psychological Medicine 3	25

<i>Session 2</i>		
PSCY9209	Psychological Medicine 4	25

<i>Sessions 1 &amp; 2</i>		
PSCY9210	Project Report	25

## Subject Descriptions

### School of Community Medicine

#### CMED9100

##### Independent Studies

*Staff Contact: A/Prof R Richmond*

CP10

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.

#### \*CMED9500

##### Epidemiology

*Staff Contact: A/Prof J Kaldor*

CP15 S1 HPW3

This subject provides students with an understanding of the role of epidemiology as the quantitative science underpinning much of public health practice. Students will learn the basic methodological tools of epidemiology, such as statistics to measure disease frequency, skills to critically review literature and interpret epidemiological studies, and their application in a variety of research and public health contexts. Skills for measuring frequency of disease and testing for evidence of association between risk factors and disease in this subject will build on statistics learnt in HEAL9061 Statistics for Public Health.

This subject will cover topics pertaining to study design, basic statistical tests and interpretation of results. Application of these topics in areas such as questionnaire design, conducting and managing studies, problems relating to research grants will be covered in CMED9513 Applied Epidemiology.

#### CMED9502

##### Statistics for Public Health

*Staff Contact: Dr Deborah Black*

CP15 S1 L3

**Note:** This is a core subject for Master of Public Health Students.

Provides an introduction to research methods and statistical techniques applicable to public health data. Statistical techniques will focus on data analysis of a single variable or linear relationships between two variables. In addition, students will learn to use SPSS for Windows to conduct statistical analyses on a set of data relevant to public health.

#### CMED9506

##### Major Project

*Staff Contact: MCH – A/Prof R Richmond; MPH – Mr A Hodgkinson*

CP50 S1, S2 or S3

The major project comprises in-depth study of a contemporary public health issue or topic. Candidates are expected to demonstrate their ability to identify and define a significant issue; systematically collect relevant, up-to-date information about the issue; analyse, interpret and discuss the information; draw conclusions, make recommendations; and write a report in a manner consistent with academic standards at Masters level. It is normally undertaken in the third full-time (or part-time equivalent) session, after completion of all core and elective subjects.

#### CMED9513

##### Applied Epidemiology

*Staff Contact: A/Prof R Richmond*

CP10 S2 HPW2

*Prerequisite:* CMED9500 Epidemiology

This subject builds on CMED9500 Epidemiology, using practical examples of the application of epidemiology in field settings. Themes will include the development and validation of measures for epidemiological studies, the conduct of research in practice, evaluation methods and the application of study designs in the real world, ethics of research, and acute epidemiological investigation.

#### \*CMED9516

##### Introduction to Public Health

*Staff Contact: A/Prof A Bauman*

CP10 S1 HPW2

This subject will introduce students to the discipline of public health. There will be 12 formal lectures and 2 weeks of student presentations. Topics covered include Australian health care system; population health; management of public health interventions; principles of prevention; health promotion; health protection; concepts of risk factors; socio-economic status and health; special needs groups; determinants of health status; disability and chronic illness.

#### CMED9517

##### Advanced Biostatistics and Statistical Computing

*Staff Contact: Dr S Lord and Dr D Black*

CP10 S2 HPW2

*Prerequisite:* CMED9502

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. Thorough individual instruction in the use of computers will be given in the laboratory.

**CMED9518****Case Studies In Epidemiology***Staff Contact: A/Prof K Kador and Dr M McCredie*

CP10 S2 HPW2

*Prerequisite: CMED9500*

Epidemiology has made a substantial contribution to public health policy and practice in a number of areas.

The subject will consider four areas (cancer, cardiovascular disease, hepatitis and screening for disease) and review the major epidemiological studies that have contributed to development of knowledge and in Public Health application in these areas. The emphasis of the subject will be on substantive findings, and the role played by epidemiological methods.

**CMED9519****Demography***Staff Contact: A/Prof I Burnley*

CP10 S2 HPW2

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

**\*CMED9539****Psychogeriatrics***Staff Contact: Dr B Draper*

CP15 S1, S2

This subject deals with the major psychiatric disorders encountered in the care of older people (dementia; depression; paranoid disorders; late onset schizophrenia and mania; anxiety disorders; stress in late life). It covers the assessment and management of these disorders, as well as other relevant issues such as preventative psychiatry, psychological treatment for the elderly, family assessment and behavioural/psychiatric disturbances in the nursing home.

**\*CMED9540****Pharmacology***Staff Contact: Prof L Howes*

CP 15 S1, S2

This subject examines the pharmacology of ageing. Topics covered include pharmacokinetics, pharmacodynamics, adverse drug reactions, drug interactions and drug prescribing in the elderly. The major drug groups involved in geriatric medicine will also be noted.

**\*CMED9541****Rehabilitation***Staff Contact: Dr G Bowring*

CP15 S2, S2

This subject introduces students to the principles and practice of rehabilitation medicine, with particular reference to rehabilitation of the elderly. Topics covered include the rehabilitation of stroke and other neurological disorders

including spinal cord injury, orthopaedic and musculoskeletal rehabilitation, orthotics, prosthetics, and rehabilitation in the palliative care setting. The role of the allied health professional in rehabilitation of the elderly is also considered.

**\*CMED9542****Healthy Ageing***Staff Contact: Dr G Stathers*

CP15 S1, S2

This subject addresses a number of health issues relevant to the practitioner in his/her day to day management of older patients. Students consider the concepts of healthy ageing and wellness, and community attitudes to ageing. The value of screening and screening tools in clinical practice is discussed. A number of clinical issues are covered such as dental and oral health, physical exercise, nutrition, sexuality, and addictions in the elderly. The importance of communication and specific communication disorders in the elderly are also examined.

**\*CMED9543****Organisation and Delivery of Health Services***Staff Contact: Dr C Poulos*

CP15 S1, S2 HPW2

A subject consisting of primary medical care, hospital based provision, community health services, geriatric assessment teams, institutional care, ethical aspects of care, testamentary capacity and 'informed' consent, guardianship board, terminal care, team concepts and team leadership, funding of care – State and Commonwealth responsibilities.

**\*CMED9544****Gerontology***Staff Contact: Prof F Ehrlich*

CP15 S1, S2 HPW2

Biology of ageing – age associated changes in structure and function of major body systems, psychology of ageing, psychological theory and cognition in later life, sociology of health and illness in the elderly, politics of ageing.

**\*CMED9545****Clinical Geriatrics***Staff Contact: Dr R Clark and P Gonski*

CP30 S3 HPW2

Presentation of disease – specific features of presentation in old age; non-specific syndromes: immobility, falls, incontinence, confusional states. System disorders: cardiac, respiratory, haematological, gastro-enterological, renal, neurological, vascular, immune, metabolic, bone, endocrine. Also special senses: hearing, visual. Podiatry.

**\*CMED9546****Major Research Project***Staff Contact: Prof F Ehrlich*

CP40 S1, S2 or S3

Candidates are required to complete a project on an approved topic. Candidates will be assisted in the planning

and preparation of the project by a preparatory course covering aspects of study design, research methods and critical appraisal of scientific papers. Satisfactory completion of this preparatory course is a prerequisite of undertaking the project, but candidates with prior experience in research may be exempted from the preparatory course.

#### **CMED9547**

##### **Clinical Experience**

*Staff Contact: Prof F Ehrlich*  
CP20 S1, S2 or S3

Candidates must complete 140 hours of supervised clinical experience at geriatric units approved by the School of Community Medicine, UNSW.

#### **CMED9600**

##### **Disability**

*Staff Contact: Dr H Dickson*  
CP10 S1 HPW2

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.

#### **CMED9602**

##### **Health and Illness Behaviour**

*Staff Contact: Mr P Trebilco*  
CP10 S1 HPW2

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**

##### **Communication and Writing in Health**

*Staff Contact: Prof P Baume and Ms S Beecher*  
CP10 S1 HPW2

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**

##### **Tobacco, Alcohol and Other Drug Issues**

*Staff Contact: A/Prof R Richmond*  
CP10 S1 HPW2

Concepts of drug dependence, including pharmacological aspects; management of these problems in primary care; rehabilitation programs, 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; media; specific intervention techniques for users of tobacco, alcohol and other drug use.

#### **CMED9605**

##### **Health in Developing Countries**

*Staff Contact: Dr J Hirshman*  
CP10 S1 S2 HPW2

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 S Irvine and Ms S Beecher*  
CP10 S1 HPW2

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.

#### **\*CMED9607**

##### **Researching Women's Health**

*Staff Contact: Dr S Irvine and Ms S Beecher*  
CP10 S2 HPW2

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: Prof M Harris*  
CP10 S1 External

**Note/s:** External course, 4 tele-conferences, 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

##### **Food and Nutrition Policy Studies**

*Staff Contact: Ms L Bloomfield and Ms P Craig*

CP10 S1 S2 HPW2

The relationship between population, health and the food and nutrition system, i.e. the production, distribution and consumption of food. Discussion of development of intersectoral policies and strategies addressing specific segments of the food and nutrition system to improve the health of vulnerable populations in developed and developing countries. Students will work through a case study and demonstrate their understanding by preparing, presenting and defending a proposed food policy for a specified population or community group.

#### CMED9611

##### **Health of the Elderly**

*Staff Contact: Dr R Salgado*

CP10 S1 HPW2

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.

#### \*CMED9612

##### **Environmental Health**

*Staff Contact: Dr J Frith*

CP10 S2 HPW2 – External mode also available

*Prerequisites: HEAL9061*

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: Prof P Baume and Dr S Irvine*

CP10 S1 HPW2

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.

#### \*CMED9615

##### **Delivery of Health Services in the Community**

*Staff Contact: Dr D Pond*

CP10 S1 S2 HPW2

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.

#### CMED9617

##### **Community Paediatrics**

*Staff Contact: Dr B Black*

CP10 S2 HPW2

A broad view of Community Paediatric Services in contemporary Australia, how this paediatrics is practiced and the rationale behind these practices. Explores the practical and theoretical background behind the development of Community Paediatrics, as well as the principles that underpin its practice. Examines some key aspects of that practice.

#### CMED9618

##### **Public Health Law and Ethics**

*Staff Contact: A/Prof P McNeill*

CP10 S1 HPW2

This subject deals with the role of law and ethics in resolving issues in public health. An overview will be presented of the Australian legal system, principles of law and legal approaches to resolving conflicts; law relevant to health professionals including their duty of care, requirements for registration, and obligations in privacy and confidentiality; legal responsibilities and obligations of public accountability; ethical principles and a model for ethical decision-making.

#### \*CMED9619

##### **Evaluation of Primary Health Care Services**

*Staff Contact: Ms J McDonald*

CP10 S3

Students will attend a three day educational program which will cover the principles of evaluation assessment and accreditation. They will work through, in detail, both the content and process for undertaking a Community Health Accreditation Standards Review. This program is highly interactive and includes role plays and case studies. After completion of the three day educational program students will be required to attend a two day review of a Community Health Service, after the review they will work with a team of two other reviewers to prepare a report. This report and



assessment by the other reviewers will be the subject of the candidates evaluation for the course.

#### **\*CMED9620**

##### **Project Management and Evaluation in Rural Areas**

*Staff Contact: Prof M Harris*

CP10 S2 – External only

**Note/s:** External Course, 4 tele-conferences and one 2 day workshop pre-term

Basic concepts of health project management and evaluation 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 programs and disease prevention strategies are selected, implemented and assessed. This course is particularly relevant to community health and general practice projects.

#### **CMED9621**

##### **HIV/AIDS: Challenging and Changing Health Care Systems**

*Staff Contact: A/Prof J Kaldor*

CP10 S2 HPW2

This course provides an introduction to biological, clinical and epidemiological aspects of HIV infection, and considers the impact of HIV/AIDS on a number of areas of the health care system and society, both now and in the future. The course is taught by internationally recognised experts in the field, and will have a particular focus on HIV/AIDS in Australia and the Asia/Pacific region.

#### **CMED9624**

##### **Mass Media in Public Health**

*Staff Contact: A/Prof A Bauman*

CP10 S2 HPW2

This subject introduces the concepts and theories of mass communication. The first objective is to understand the development, design and evaluation of mass media health-related campaigns in public health. The principles of formative and summative evaluation will be described. The second objective is to increase understanding of and develop skills in media message development and analysis. The third objective is to develop an understanding of the uses of mass media for public health advocacy purposes. The ways in which the media portray health issues, and the ways in which this process can be influenced will be discussed using the methods of content and discourse analysis.

#### **CMED9625**

##### **Advanced Research Methods in Health Promotion**

*Staff Contact: A/Prof A Bauman*

CP10 S2 HPW2

**Prerequisites:** CMED9500, HEAL9061, MEED9012

This advanced subject will focus on quantitative approaches to health promotion research. Critical appraisal of health promotion research and review of multivariate methods in (theoretical) research will be discussed.

Practical training in advanced methods (quantitative) and approaches to analysis and report writing will use health promotion data sets. Emphasis will be given to innovative study designs, sampling and practical problems in health promotion research.

#### **CMED9626**

##### **Inequalities and Health**

*Staff Contact: Dr E Comino*

CP10 S2 HPW2

The subject aims to provide practical skills in analysing inequalities and evaluating interventions designed to address them. These are critical skills in the Health Outcomes approach. The subject comprises three 1 day workshops with teleconferences after each workshop. For further information contact Dr E. Comino, Ph: 9385 2522.

#### **\*CMED9627**

##### **Audit and Quality Assurance in Primary Care**

*Staff Contact: Prof M Harris, Dr J Frith and Dr D Pond*

CP20 S3 – External only

This subject aims to provide theory and practice in quality assurance and audit in General Practice. In the subject students will develop knowledge and skills in quality assurance and audit principles and methods and in applying these to their own clinical practice by conducting audits of their practice over one year. The subject will include distance education materials and manuals, teleconferences, one weekend workshop, audit manuals and material.

#### **\*CMED9630**

##### **Developing Health Services for Indigenous Australians**

*Staff Contact: Dr S Irvine*

CP10 S1

This subject will help students' understand by Indigenous Australians are sicker and die younger than other Australians. Students will learn skills in the processes of health service development for both rural and urban communities. These will be applicable to preventive and curative services, individual and public health interventions, and mainstream and special initiatives. Aspects of planning, policy making, implementation and evaluation will be covered within a framework of cultural safety and self determination.

#### **\*CMED9631**

##### **Project in Aboriginal Health**

*Staff Contact: Dr S. Irvine*

CP10 S2

Students in this subject will participate in small groups in a project organised in conjunction with an Aboriginal community or health provider. Experiential learning techniques will cover both process elements of project implementation and content elements specific to the health problem addressed. The project will be designed within a framework of cultural safety and self determination.

**\*CMED9632****Project Design and Monitoring in Effective Health Care**

*Staff Contact: Prof P Baume, Dr D Black and Dr S Irvine*  
CP10 S2

This subject will allow students who have undertaken subjects in measurement, decision making, planning and evaluation to apply these skills in a real project in a clinical environment. Students will work in small groups and each student in the group will be responsible for one component of the project. Working in a team will be an important part of the project. This subject will be conducted in association with a health care provider or funding agency.

## School of Health Services Management

**HEAL3091****Long Term Care Administration**

*Staff Contact: To be advised*

CP10 SS L2

**Note:** Not offered in 1999

Introduction to the more important theories, concepts and practical tools which are applicable to the evaluation, administration and planning of long term care institutions and nonresidential agencies and programs.

**HEAL9011****Statistics and Epidemiology**

*Staff Contact: Dr Mary-Louise McLaws*

CP15 S1 L2

Collection, collation and analysis of data and the interpretation of statistical information for the purposes of health services management. The use of computers for these purposes. Measurement of disease rates and interpretation and identification of health status. These statistical methods and measures will assist in planning, operation and evaluation of interventions in health service management.

**HEAL9021****Health Services Statistics**

*Staff Contact: To be advised*

CP10 SS L2

*Prerequisite:* HEAL9011 or equivalent

**Note:** Not offered in 1999

The application of statistical methods to health planning and administration problems and other problems of direct relevance to the health care field.

**HEAL9031****Ethics of Resource Allocation**

*Staff Contact: Ms Helen Lapsley*

CP10 SS L2

*Prerequisites:* HEAL9351 and HEAL9811, or equivalents

Management of scarce resources in relation to concepts of equity and justice. An examination of the ways in which choices are made, and the organisational structures which

determine how, by whom and for whom resource allocation decisions are made within the health care system. A review of the most significant ethical issues. Case studies which demonstrate value judgements, ethical and economic conflicts and the determination of priorities.

**HEAL9041****Health Care Systems**

*Staff Contact: Dr Stephanie Short*

CP15 S1, L2

The first part of the subject focuses on the concepts and theoretical perspectives that will enable students to understand the complex relations between health, health care and society. Notions of physical, psychological and social health both at the individual and society-wide level are analysed. Close attention is paid to the health care system in Australia, as a basis for the closer analysis of particular health-care issues such as the organisation and financing of health care, the health workforce, health care legislation and health care services for disadvantaged groups. The subject then examines current reforms in health policy making, delivery and financing, before future possibilities for the development of health and health care in Australia and elsewhere are analysed.

**HEAL9071****Health Care Financial Management 1**

*Staff Contact: Mr Kevin Forde*

CP15 S2 L2

Introduction to double entry accounting including the underlying conventions and doctrines to provide a working knowledge of both accrual and cash based accounting systems, utilisation of accounting records for the presentation and interpretation of profit and loss accounts, balance sheets and fund statements. Introductory financial statement analysis, budgeting, analysis of budgets and costing products and services. An introduction to contract law and the legal obligations of financial managers.

**HEAL9081****Health Care Financial Management 2**

*Staff Contact: Mr Kevin Forde*

CP10 S2 L2

*Prerequisite:* HEAL9071 or equivalent

An investigation of hospital fund accounting to provide a level of operational competence. Exposure to budgeting techniques and evaluation procedures; cost analysis and control; investment evaluation and discounted cash flow techniques; accounting for investment; cost allocation procedures. An overview of the 'subjectivity' of accounting numbers; political and financial pressures placed upon reporting and report formats. Alternative valuation techniques.

**HEAL9111****Quality Assurance**

*Staff Contact: Ms Helen Lapsley*

CP10 S1 L2

An overview of quality assurance within the health care system, and of the development of quality assurance

programs. A review of the roles and methodology of peer review, clinical review, screening criteria for risk management, patient satisfaction and accreditation. Techniques relating to the implementation of quality assurance programs. Integration of quality assurance concepts into the roles and functional responsibilities of health service managers.

### **HEAL9301**

#### **Health Services Planning 1**

*Staff Contact: Mr Ian Forbes*

CP10 SS L2

Examination of the major concepts used in planning health services systems within a context of resources allocation, at a community, regional and national level. Techniques used in data collection, analysis and modelling for health planning. Analysis of environments external to health service organisations of a societal, political and health status nature. Assessment of organisations within service areas. Management skills appropriate for policy making, program evaluation and health services resource distribution.

### **HEAL9331**

#### **Health Related Law and Jurisprudence (Australia)**

*Staff Contact: Mr Phillip Bates*

CP10 SS L2

*Prerequisite:* HEAL9041

This subject will explore contemporary applied issues in law and related ethical matters of particular relevance to health services management, planning and delivery. The subject matter will vary depending, in part, on the backgrounds and interests of enrolled students and the subject coordinator's research programmes.

### **HEAL9341**

#### **Health Related Law and Jurisprudence (Hong Kong)**

*Staff Contact: Mr Philip Bates*

CP10 SS

*Prerequisite:* HEAL9041

The subject will explore contemporary applied issues in law and related ethical matters of particular relevance to health service management, planning and delivery in Hong Kong. The subject matter will vary depending, in part, on the backgrounds and interests of enrolled students and the subject coordinator's research programmes.

### **HEAL9351**

#### **Health Economics 1**

*Staff Contact: Ms Helen Lapsley*

CP15 S2 L2

Economic analysis as applied to resource allocation, planning and evaluation in health services. Topics: basic concepts and methods of economic analysis, economics of the public and private sector, decision making, supply and demand, pricing and nonpricing methods of allocation, welfare analysis, ethics of resource allocation, economic planning of health services, cost benefit evaluation, cost effectiveness analysis, economics of hospitals and economic impact of health insurance.

### **\*HEAL9361**

#### **Physical Planning and Design**

*Staff Contact: Mr Ian Forbes*

CP10 SS L2

Planning processes applied to physical and environmental design. Regional, urban and local planning issues. Building design and building project management. Cost planning, network analysis and commissioning. Briefing, design and evaluation methods. Ergonomics and environmental psychology. Applications to health and welfare facilities. Administrative, medical and nursing policy implications.

### **\*HEAL9371**

#### **Research and Evaluation Methods**

*Staff Contact: Dr Mary-Louise McLaws*

CP10 S2 L2

Skills in research design, evaluation methods and literature review will be developed using applied learning methods. Skills will be developed in the formulation of a research question, questionnaire or evaluation methodology. Students will choose an area or areas of interest to develop during the session and the development of this research will be presented for weekly peer review. Peer review is aimed at providing students with a critique and a forum for students to learn, to appraise a variety of research problems.

### **HEAL9381**

#### **Policy Studies**

*Staff Contact: Dr Pieter Degeling*

CP10 S2 L2

*Prerequisites:* HEAL9041, HEAL9711

*Corequisite:* HEAL9351

Contemporary health policy issues including the politics of health care; principles of policy formation and analysis. Past topics have included: health care technology; occupational health and safety; government control of private medical practice; hospital cost containment; the impact of Medicare; Commonwealth/State financial relationships; quality assurance and utilization review; the regionalised administration of health services; health policy issues in developing countries.

### **HEAL9391**

#### **Health Services Strategic Management and Planning**

*Staff Contact: Mr Jeffrey Braithwaite*

CP10 SS L2

What is strategic planning? What does it mean to manage strategically? How do health service organisations (or, more accurately, the people within them) express their strategic intent? How can you plan for the future when the environment is so complex and change so rapid? We investigate strategy in the health services by examining the ideas, tools and techniques of the strategist. Topics discussed include strategic planning, strategic behaviour, marketing, leadership and the learning organisation.

**HEAL9411****Epidemiology**

*Staff Contact: Dr Mary-Louise McLaws*  
CP10 SS L2

Skills for critical appraisal of medical literature and of clinical and service outcome indicators will be developed. Knowledge of epidemiologic methodology will be applied during critical appraisal of medical, scientific and nursing literature with the aim of assisting students to evaluate published findings and in decision making of clinical practice, policy and planning. Clinical and service outcome indicators will be developed and appraised.

**HEAL9421****Public Health and Epidemiology**

*Staff Contact: Prof James Lawson*  
CP15 S1 L2

Distribution patterns and determinants of disease and disability with particular reference to diseases of major Australian concern. Preventive, treatment and rehabilitation strategies. The uses of epidemiology in the planning, operation and evaluation of health services.

**HEAL9422****Population Health, Epidemiology and Statistics**

*Staff Contact: Prof James Lawson*  
CP15 S1

Population health is primarily concerned with the health status of populations and communities as distinct from clinical health or medicine which is primarily concerned with the health of individuals and families. The objectives for this subject include: to provide an examination of the determinants and causes of disease and injury in populations and communities; the collection and bio-statistical analysis of data to create information about disease and injury patterns in populations and communities (the epidemiological approach); and the use of information about disease and injury in populations and communities in order to manage, plan and provide hospitals, health services and prevention strategies.

**HEAL9431****Interpersonal Communication in Organisations**

*Staff Contact: To be advised*  
CP10 SS L2

**Note:** Not offered in 1999

A theoretical and practical subject which aims to increase students' understanding of, and capacity to deal with, communication problems in organisations. Teaches students to improve their own communication skills by a series of communications exercises, role plays, simulations and games. Students are able to chart their progress with a checklist developed for the course.

**HEAL9441****Health Economics 2**

*Staff Contact: Ms Helen Lapsley*  
CP10 SS L2

*Prerequisite:* HEAL9351 or equivalent

**Note:** Not offered in 1999

Builds on Health Economics 1 with greater emphasis on planning. Topics include: demand and utilization analysis and prediction, cost benefit analysis and project evaluation, costs and models of health delivery units, optimum size and location, inflation control, regional planning models and rationalisation, financing systems and incentives for efficiency, alternative economics and political economy of health services.

**HEAL9442****Health Resources Planning and Development**

*Staff Contact: Mr Ian Forbes*  
CP15 S2 L2

Analysis as applied to resource allocation, planning and evaluation in health services. Topics cover the basic concepts in planning using methods of systems analysis, examining issue of resource development in the public and private sector, decision making, resource supply and demand, welfare analysis and issues of resource allocation. Included is the planning and procurement of health resources including facilities, workforce and service programs in the light of cost benefit and cost effectiveness analysis.

**HEAL9451****Workforce Planning**

*Staff Contact: to be advised*  
CP10 SS L2

*Prerequisites:* HEAL9301 and HEAL9351, or equivalents

**Note:** Not offered in 1999

Systems approach to workforce planning in the health services. Task analysis as a workforce planning technique; career mobility; supply of health personnel, projection of supply, wastage rates; approaches to measurement of demand for health personnel and projection of demand; changing productivity in the health sector. Workforce planning at the institutional level; demographic and mathematical models. Analysis of recent studies of the Australian health workforce.

**HEAL9461****Management and Evaluation of Health Information Systems**

*Staff Contact: to be advised*  
CP10 S2

The subject focuses on the key areas of health information systems design, information architecture building and information systems management. The core curriculum integrates fundamental management concepts and the utilisation of information technology in health care. The subject provides an overview of the current clinical services, patient administration and financial systems within health institutions, and provides tools for cost-effective analysis and evaluation of health outcomes.

**HEAL9471****Comparative Health Care Systems**

*Staff Contact: to be advised*  
CP15 SS

Examination of the structure and function of health care systems with special reference to constitutional, legal,

economic, social and political environments within which health care systems operate; characteristics of institutional and non-institutional care; expenditure, funding arrangements and systems of health insurance and the health workforce; current policy issues affecting the health system in the country are reviewed.

#### **HEAL9481**

##### **Operations Research for Health Planning and Administration**

*Staff Contact: To be advised*

CP10 SS L2

*Prerequisite:* HEAL9011 or equivalent

**Note:** Not offered in 1999

Operations research methodology and techniques as applied to health services. Model building and systems approach. Typical operations research problems such as competition, queuing, inventory, allocation, search and scheduling problems as they appear in a health services environment.

#### **HEAL9491**

##### **Organisational Analysis in Health Services**

*Staff Contact: Dr Pieter Degeling*

CP10 SS L2

**Note:** Not offered in 1999

Students conduct an analysis of one health organisation according to a specific organisational theory perspective (eg systems, contingency, administrative, action). The level of analysis is at the organisational level, and students are instructed in measurement, data collection and analysis of organisational attributes. This exercise forms a backdrop to discussions of key organisational issues relating to centralisation, complexity, uncertainty, and resource dependency etc.

#### **HEAL9501**

##### **Computing Techniques for Health Services Management**

*Staff Contact: Dr Tom Benjamin*

CP10 SS L2

Introduction to, and practice of, transferable skills for the utilisation of personal computers in the workplace. The nature of tasks performed in computing. The nature of computing systems, databases, and communication links. Use of software packages for clinical and managerial data acquisition, analysis, and report preparation. Use of the Internet for teleworking, compiling, and transmitting information. Conducted at laboratory terminals during residential schools, with students obliged to make their own arrangements for access to computers during term.

#### **\*HEAL9511**

##### **Special Topic in Health Administration or Planning**

*Staff Contact: Mr Kevin Forde*

CP10 SS L2

An occasional elective dealing with some aspect of health administration or planning, selected according to current demand and availability of local and visiting lecturers.

#### **HEAL9531**

##### **Fieldwork in Health Service Organisation**

*Staff Contact: To be advised*

CP10 SS L2

Supervised placement in health service organisation. Emphasis on students acquiring knowledge of organisation and departmental functioning, daytoday problems faced by health service managers.

#### **HEAL9661**

##### **Current Issues in Nursing**

*Staff Contact: Dr Anna Whelan*

CP10 SS

Controversial issues involving the nursing profession are critically examined. Topics addressed include: minimal educational preparation, mandatory continuing education, nontraditional education, unionism vs professionalism, political action in the health arena, government involvement, clinical specialisation, cost effectiveness, consumer's rights, factors affecting nurses participation in the workforce, ethics in practice.

#### **HEAL9701**

##### **Management of Work of Health Professionals**

*Staff Contact: Dr Anna Whelan*

CP10 S2 L2

Identifies the range of social, economic, political, industrial and technological factors which may influence the organisation of both work and workers. Develops knowledge and skills in critically evaluating and implementing techniques and methods which have been recommended for organising work and managing responses of workers. Topics addressed include: assessing and improving worker performance, motivating professionals, workplace conflict, designing work, introducing technology, managerial aspects of employment law, and management techniques such as Total Quality Management (TQM).

#### **HEAL9711**

##### **Management of Organisation**

*Staff Contact: Dr Pieter Degeling*

CP15 SS

Examines current theories of organisation and management, and evaluates their applicability to management work in health care settings. Examines the relationship between theory and practice in managing organisations; fosters an appreciation of the dynamics of managerial behaviour and extends understanding of what is entailed in accomplishing organisational change and in constituting management control.

#### **HEAL9731**

##### **Industrial Relations in the Health Services**

*Staff Contact: Dr Anna Whelan*

CP10 SS

*Prerequisite:* HEAL9701 or equivalent

**Note:** Not offered in 1999

This subject is designed to extend the health service manager's knowledge of employer - employee relations in

the health services workplace in Australia. The subject builds on theoretical frameworks introduced in Management of Work. It examines the framework of industrial relations in Australia, including development of the arbitral model, state intervention, labour law, trade unions, professional associations, and employer associations. It explores the development of personnel management in Australia including an assessment of current Human Resource Management, the diffusion of different management concepts in Australia including the 'new managerialism', and contemporary issues such as the flexibility thesis, quality improvement and enterprise bargaining.

#### **HEAL9741**

##### **Management of Health Services**

*Staff Contact: Mr Jeffrey Braithwaite*

CP10 S1

The subject is designed to analyse key managerial literature and provide students with strategies to enhance the management of the health sector. Students are presented with material, engaged in debates, and provided with insights and feedback to enable them to reach conclusions about how they might improve their personal management skills and approach. Topics examined from time to time include: organisational structure, human resource management, politics and culture, managerial psychology, organisational communication, continuous improvement and the management of change.

#### **\*HEAL9743**

##### **Introduction to Casemix**

*Staff Contact: Prof George Palmer*

CP10 S2 L2

Diagnosis related groups (DRGs) and other casemix systems including their history, principles of construction and recent modifications including the Australian National DRGs (AN-DRGs). Problems in the use and interpretation of DRG data: the varying clinical and resource homogeneity of individual DRGs and the presence of outliers. Effects of errors in the coded medical record abstract data on DRG assignment; limitations imposed by the disease and procedure classification systems currently used. Future developments in the design of casemix systems.

#### **\*HEAL9744**

##### **Casemix Accounting and Funding**

*Staff Contact: Prof George Palmer*

CP10 S2

*Prerequisite or Corequisite: HEAL9743*

The conceptualisation of hospital products as the diagnosis, treatment and care of specific patient groups. Casemix costing and traditional hospital costing. Alternative methods of casemix costing including clinical costing systems and cost modelling. The Yale Cost Model. Application of casemix costing results from individual hospitals. Alternative methods and models of using casemix for hospital funding purposes. Budgeting for clinical departments.

#### **HEAL9746**

##### **Casemix and Contracting for Health Care**

*Staff Contact: Prof D Hindle*

CP10 S1, S2

**Note:** Not offered in 1999

Public and private funders are moving towards more sophisticated descriptions of services in formal contracts with health care providers. Particular attention is being given to the use of casemix classifications when defining those services.

This subject discusses and then illustrates the key components of casemix-based contracting. They include optional approaches to the process of categorisation itself, such as time-based and episode-based classifications, episodes of care and episode management units, and iso-resource and iso-utility classes. Attention is paid to the measurement of costs and utilities, and to audits of such matters as clinical codes, quality of care, and outcomes. The role of clinical pathways is considered in detail.

The ideas are explored through a case study, in which students function as members of either a purchaser or a provider hospital during two annual rounds of negotiation. The outcomes of negotiation are then evaluated by use of a model which predicts costs and revenues, and associated variables including admission rates and lengths of stay. Assessment is through two assignments, in which students are expected to provide advice on operations to both the insurer and the provider.

#### **HEAL9751**

##### **Introduction to Management and Policy for Public Health**

*Staff Contact: Prof James Lawson*

CP10 S1 L2

**Note:** This is a core subject for Master of Public Health students.

Provides students with an understanding of the broad range of factors that can affect public health policy development and implementation and which can influence how public health services are organised and managed. The subject extends students understanding of different approaches to developing and implementing public health policy and to organising and managing a unit within a public health service.

#### **HEAL9761**

##### **Mental Health Services Management**

*Staff Contact: Dr Tom Benjamin*

CP10 SS L2

A multidisciplinary subject intended to apply competencies gained in organisation theory, sociology, finance, and economics subjects to the special requirements of the mental health field. The major assignment will emulate an external consultant's report of a mental health facility within its community context. Strategies for change will be discussed in the light of evidence from case histories and students' assignments.

**HEAL9771****Casemix for Clinician Managers**

*Staff Contact: A/Prof Pieter Degeling*  
CP10 SS

This subject examines how casemix information, methods and applications can be used to address organisation change issues that are likely to arise in constituting clinical units as learning organisations. The subject is structured to develop practical skills in using casemix information and methods in engendering organisational learning with respect to: strategic planning and management; budgeting and financial control; service planning; clinical audit; utilisation review; quality assurance; clinical guideline development and implementation; the development of an outcomes focus in service planning and delivery; and, in planning and implementing streams care.

**HEAL9811****Sociology, Ethics and Health**

*Staff Contact: Dr Stephanie Short*  
CP10 SS

The first part of this subject focuses on the classical sociological tradition most closely associated with the work of the founding parents of sociology; Marx, Weber and Durkheim. In this first part, particular attention is paid to the social origins of ethics and the cultural construction of morality. The subject then follows the development of health sociology through the examination of issues such as socio-economic inequality and health, the social construction of health knowledge, consumer participation in health care and the new public health.

**HEAL9821****Health and Society**

*Staff Contact: Dr Stephanie Short*  
CP10 SS

*Prerequisite:* HEAL9811 or equivalent

**Notes:** Not offered in 1999

This subject provides students with the opportunity to enhance their understanding of social research methodology and to learn about the social research process by undertaking a social research project.

**HEAL9921****Project**

*Staff Contact: Dependent on the subject chosen*  
CP10 SS

**HEAL9931****Project**

*Staff Contact: Dependent on the subject chosen*  
CP30 S1 or S2

**HEAL9941****Project**

*Staff Contact: Dependent on the subject chosen*  
CP10 SS

**HEAL9951****Research Project A**

*Staff Contact: Dependent on the subject chosen*  
CP10

**HEAL9961****Research Project B**

*Staff Contact: Dependent on the subject chosen*  
CP10 S1 or S2

**HEAL9971****Dissertation**

*Staff Contact: Dr Mary-Louise McLaws*  
CP60 S1, S2 or S3

**HEAL9972****Part-time Dissertation**

*Staff Contact: Dr Mary-Louise McLaws*  
CP30 S1 or S2

**HEAL9973****Major Project (MPH)**

*Staff Contact: Mr A. Hodgkinson*  
CP50 S1, S2 or S3

The major project comprises in-depth study of a contemporary public health issue or topic. Candidates are expected to demonstrate their ability to identify and define a significant issue; systematically collect relevant, up-to-date information about the issue; analyse, interpret and discuss the information; draw conclusions, make recommendations; and write a report in a manner consistent with academic standards at Masters level. It is normally undertaken in the third full-time (or part-time equivalent) session, after completion of all core and elective subjects.

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## School of Medical Education

**MEED9001****Independent Studies**

*Staff Contact: MHPed – Mr A Hodgkinson*  
CP5

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****Community Development**

*Staff Contact: Dr J Ritchie*  
CP10 S1 HPW2

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 and the assessment of community health needs.

#### **\*MEED9012**

##### **Health Promotion**

*Staff Contact: Dr J Ritchie*

CP10 S1 S2 HPW2

Explores the meaning of health promotion and its role in the field of public health, and provides a forum for discussion on preventive approaches in health care. Students study a variety of approaches to promoting health and consider the benefits and disadvantages of each of these within an integrated framework

#### **MEED9013**

##### **Influencing Health Beliefs and Health Behaviours**

*Staff Contact: Ms F Trede*

CP10 S1, 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.

#### **MEED9015**

##### **Health Services Development and Implementation**

*Staff Contact: Prof Arie Rotem*

CP15 S2 HPW3

This subject addresses the development of health services within a context of management and health services delivery through involvement of human resources. The focus is on development and team participation, the examination of organisational culture and learning within the organisation, leadership, change management and communication. The complexities of cross cultural communication in health services in different international settings is explored. Community and institutional settings for service delivery are explored.

#### **MEED9102**

##### **Educational Process in Small Groups**

*Staff Contact: Mr A Hodgkinson*

CP10 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: Dr P Youngblood*

CP10 S1 HPW2

Application of the skills and knowledge gained in MEED9133 to the design of instruction for various learning environments in the health field. Students learn to analyse

a teaching problem, identify and classify learning outcomes, write learning objectives, select appropriate instructional and assessment strategies, and evaluate the effectiveness of instruction. Classes are organised as a series of workshops addressing the steps in the design process, including analysis, design, development and evaluation

#### **MEED9106**

##### **Teaching Skills**

*Staff Contact: Ms L Bloomfield*

CP10 S1 HPW2

The practical aspects of teaching methods. Problems experienced by 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: Dr P Harris*

CP10 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 utilisation of test scores and other assessment data in educational decisionmaking.

#### **MEED9108**

##### **Program Evaluation and Planned Change**

*Staff Contact: Prof A Rotem*

CP10 S2 HPW2

This subject is offered with the expectation that participants will assume an increasingly important role in the planning, conduct and evaluation of educational and/or public health programs. The role of evaluation in development and innovation is explored with due attention to organisational and political sensitivities and constraints. The role of the evaluator in clarifying the need for evaluation, and in determining the questions that should be addressed, and the methods of obtaining and interpreting information, is considered in some detail.

#### **MEED9110**

##### **Workshop in Culture, Subculture and Communication**

*Staff Contact: Dr R Pigott*

CP10 S1 HPW2

Introduction to the complexities of communicating across cultural and subcultural barriers in a world now increasingly composed of multicultural societies; and to the emerging role of intercultural communication skills in promoting



health, preventing and treating disease, and managing health systems. The subject embraces theoretical and experiential learning and is designed to offer students an intellectual and intuitive feeling for the subject that will have immediate practical use.

### **MEED9111**

#### **The Consultation Process**

*Staff Contact: Prof A Rotem*

CP10 S2 HPW2

*Recommended Prerequisite:* MEED9134 or equivalent

*Corequisites:* MEED9108, MEED9113, MEED9112

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.

### **MEED9113**

#### **Evaluation of Instructors**

*Staff Contact: Ms L Bloomfield*

CP10 S2 HPW2

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: Dr C Berglund*

CP5 S2 HPW1

Considerable interest is expressed by the health professions in the process of selecting students. Complaints are often directed to such shortcomings as the lack of willingness of postgraduates to work in rural areas, the inclination of students to seek 'spoon feeding', the inability of students to relate to patients, the poor science background of students etc. This elective examines the extent to which solutions to these problems can realistically be expected from improved selection.

### **MEED9120**

#### **Qualitative Research Methods in Health Promotion**

*Staff Contact: Dr J Ritchie*

CP10 S1 HPW2

*Prerequisites:* MEED9012, CMED9500

This subject focuses on issues and methods in qualitative research in health promotion and public health. It is offered to those wishing to undertake their major projects using qualitative methods.

### **MEED9122**

#### **Primary Health Care**

*Staff Contact: Dr V Nossar*

CP10 S1 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: Ms L Bloomfield*

CP10 S2 HPW2

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: Dr P Harris*

CP5 S1 HPW1

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: Mr A Hodgkinson*

CP10 S1 HPW2

In an attempt to develop their skills in all aspects of conducting workshops, participants are guided to formulate a plan for a 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: Ms L Bloomfield*

CP10 S2 HPW2

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: Dr M Stjernborg*

CP10 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.

**MEED9129****Primary Health Care: Issues in Implementation***Staff Contact: Dr V Nossar*

CP10 S2 HPW2

*Prerequisite:* MEED9122 or evidence of substantial prior experience in primary health care work

This subject guides participants through a detailed analysis of both the theory and the practice of implementing Primary Health Care programs. Problems and issues encountered in implementation are examined and practical solutions explored. The course is designed for health professionals who have had some prior exposure to the concepts and practice of Primary Health Care, and draws upon relevant case studies for the analysis.

**MEED9130****Information Technology in Medical Education***Staff Contact: Dr M Stjernborg*

CP10 S2 HPW2

**Note/s:** Subject to approval of Academic Board.

This subject aims to provide an introduction to the use of information technology in higher education focusing on basic training of health care workers and continuing education so as to assist participants to make informed decisions about whether, when and how to use information technology for educational purposes. Particular emphasis will be placed on: computer-mediated learning, knowledge-based systems, multimedia and the Internet.

**MEED9131****Formulating Academic Proposals and Projects***Staff Contact: Mr A Hodgkinson*

CP10 S1, S2

This subject aims to explore concepts and develop skills related to formulating academic projects and proposals. Emphasis will be given to identifying research or development needs, developing conceptual and data critical analysis skills, undertaking literature analysis, planning project aims, identifying practical administrative and ethical limits, and writing skills.

**MEED9132****Professional and Scientific Inquiry***Staff Contact: Dr Magnus Stjernborg*

CP15 S1, S2

The foundation knowledge which is essential in developing inquiry skills. Research and analysis underpin the work of any teacher, manager or evaluator. This subject introduces

key concepts and exercises, so that students can learn from published research and can start to formulate their own inquiries.

**\*MEED9133****Learning, Teaching and Assessment***Staff Contact: Ms Leah Bloomfield*

CP15 S1

Current views about the conditions which support learning and the requirements these imply for teaching. Focuses on adult learning in various settings: in tertiary institutions, the workplace and the community.

**MEED9134****Developing Learning Organisations***Staff Contact: Mr A Hodgkinson*

CP15 S1

Effective organisations for learning provide an environment which is conducive to learning through supportive conditions, appropriate resources and effective coordination and leadership. They are also characterised by their ability to adapt their programs and realign their resources in response to changes and opportunities in their external milieu. This subject enables students to identify the attributes of an effective organisation for learning, and determine how their home organisation can provide an optimal setting for the provision of teaching and learning.

**\*MEED9135****Planning, Implementing and Evaluating Educational Programs***Staff Contact: Dr P Youngblood*

CP15 S2

Students will learn to use an educational planning model to design, implement and evaluate educational programs. Emphasis will be on educational planning at the macro level. Students will identify and analyse an educational problem, within the context of the larger institution, then design and develop program components. In addition, students will plan implementation and evaluation strategies appropriate to the organisational context. Using case studies, students will learn to apply the model in a range of educational settings, including formal courses in medical and nursing schools, as well as continuing professional development programs for practising health professionals.

**\*MEED9140****Project Design and Monitoring in International Health***Staff Contact: Prof A Rotem*

CP10 S2 6HPW

*Prerequisites:* HEAL9061 (or equivalent), CMED9500 (or equivalent) and HEAL9751 (or equivalent)

The planning of international health projects is a multi-phased process that must be performed well if sustainable high quality improvements in health care are to be achieved. This subject is designed to equip professionals contributing to international health with the competencies necessary to develop a practical comprehensive project plan, in line with current international practice. Subject topics will cover

all the major steps necessary to produce this plan. As they work through these steps, using a real developing world situation, candidates will carry out each of the analyses necessary at each stage and develop their own plan.

#### **MEED9143**

##### **Major Project**

*Staff Contact: Mr A Hodgkinson*

CP50 S1, S2 or S3

Provides an opportunity for the candidate to apply coursework learning through focusing on an area of health personnel education relevant to the candidate's professional interests and development and to the furthering of health personnel education.

#### **\*MEED9302**

##### **Learning in Small Groups**

*Staff Contact: Dr P Harris*

C10 S1, S2 or S3

The subject 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 groups, 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: Dr P Harris*

CP10 S1, S2 or S3

This subject explores the nature of professional expertise within clinical practice as a skilled discipline within the streams of general and specialist practice and within nursing and the therapies. 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 subject 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: Mr P Godwin*

CP15 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.

#### **\*MEED9306**

##### **Clinical Supervision**

*Staff Contact: Dr P Harris*

CP10 S1, S2 or S3

This subject 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 subject 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 Clinical Ethics**

*Staff Contact: Dr C Berglund*

CP10 S1, S2 or S3

This subject guides the learner through the major ethical principles affecting clinical choices using a large array of contemporary clinical issues. The subject is based on posing questions and the search for answers.

Ethicists differ in the way they search for answers. Not all believe that there is one truth to find. Many believe that the 'truth' depends on the context, or situation, or on the relative importance of opposing values. This subject attempts to hear 'many voices' not only from ethicists and clinicians but from law, religion, administration and lay media. Ethicists themselves range across a spectrum from 'You should ...' (duty based deontologists) to 'It depends ...' (situationists). The subject aims to bring out that range. Assignments utilise consultations to explore ethical principles and their implications in the clinical setting.

#### **\*MEED9308**

##### **Learning Clinical Decision Making**

*Staff Contact: Mr P Godwin*

CP10 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****Assessing Clinical Performance***Staff Contact: Dr M Harris*

CP10 S1, S2 or S3

This subject covers the purposes, location, criteria, methods, timing, frequency, scoring methods and formats, and training of examiners to achieve consistency. The subject includes development of assessments undertaken by self, peers, other health workers and patients. The subject 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.

**\*MEED9311****Patient and Family Education***Staff Contact: Ms J Ritchie*

CP10 S1, S2 or S3

This subject 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 subject studies coping strategies and mobilisation 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: Dr C Berglund*

CP15 S1, S2 or S3

This subject takes participants through many of the planning stages of research. The final project is to write a grant application for a research project in clinical education. This process involves the consideration of research questions, research paradigms, measures and interpretation. The social context of research is covered, as is the process of dissemination of research findings.

**\*MEED9313****Planning Education Programs***Staff Contact: Mr P Godwin*

CP10 S1, S2 or S3

This subject deals with the planning, implementation and evaluation of postgraduate 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: Dr C Berglund*

CP10 S1, S2 or S3

This subject 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 socialisation 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: Dr P Harris*

CP15 S1, S2 or S3

The subject includes the planning and conduct 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, explication of the clinical experience, in terms of available theory, translation of professional knowledge into working knowledge, and forward planning of reading and further practice. The subject 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: Dr P Harris*

CP15 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, in referral to others 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.

**\*MEED9317****Clinicians as Managers***Staff Contact: Mr P Godwin*

CP10 S1, S2 or S3

This subject focuses on the role of clinicians in the management of health and education programs. It aims to encourage review of organisational and management issues which influence the performance of clinical units. The material includes identification of the functions of management, the typical challenges faced by clinicians as managers, their contribution to leadership and team development, their role in planning, evaluation and their management of change. The assignments in this subject will require a step-by-step review of the way activities and programs are managed and strategies to improve the effectiveness and efficiency of the organisational unit under study. Participants will be required to reflect on their performance as managers in tasks such as setting goals, organising, delegating, supervising and supporting staff development.

**\*MEED9351****Independent Study***Staff Contact: Dr P Harris*

CP5 S1, S2 or S3

**\*MEED9352****Independent Study***Staff Contact: Dr P Harris*

CP10 S1, S2 or S3

**\*MEED9353****Independent Study***Staff Contact: Dr P Harris*

CP15 S1, S2 or S3

**\*MEED9354****Independent Study***Staff Contact: Dr P Harris*

CP20 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 five to twenty, according to the size of the independent study.

\*These subjects are part of the Master of, and Graduate Diploma in Clinical Education, and are available on a full fee paying external basis only.

**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 School of Medical Education shall be satisfied that adequate supervision and facilities are available.

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**School of Paediatrics****PAED8102****Psychosocial Development***Staff Contact: Prof S Einfeld*

CP10 S1 S2 HPW2

Theories of Freud, Erikson and Piaget, normal and abnormal family processes, behavioural and developmental issues, childhood behaviour problems and management, adolescent behaviour problems and management.

**PAED8103****Child Health Services***Staff Contact: Dr E Murphy*

CP10 S1 S2 HPW2

The child care delivery system, parent education, screening programmes, immunisations, accidents and poisoning, dental care, care of physically and mentally disabled children.

**PAED8104****The Effect of Social Adversity in Childhood***Staff Contact: Dr V Nossar and Dr G Alperstein*

CP10 S1 S2 HPW2

Family structure and dynamics, poverty, single parent, drug addicted parents, housing and sanitation, homeless children, teenage parents, migrant families, Aboriginal health, working mothers and childcare.

**PAED8105****The Child and the Law***Staff Contact: Dr K Moran*

CP10 S1 S2 HPW2

Adoption, child custody, child physical and sexual abuse, children's rights, the United Nations charter for children, child welfare, laws designed for special needs of children, juvenile delinquency.

**PAED8108****Major Project**

CP80 S3

The research project may be undertaken in any area pertaining to child health.

**PAED8109****Physical Growth And Development II***Staff Contact: Dr C Cunningham and Prof H Bode*

CP20 S3 HPW2

An extension of topics covered in PAED8101 Physical Growth and Development I

**PAED8201****Physical Growth and Development I A***Staff Contact: Professor R Henry*

CP10 S1 HPW2

Foetal growth and development. Physical growth from birth to adolescence. Neurodevelopment. Assessment of growth and development.

**PAED8202****Physical Growth and Development I B***Staff Contact: Professor R Henry*

CP10 S2 HPW2

*Pre-requisites:* PAED8201 or equivalent

Developmental surveillance and developmental screening. Child developmental and cultural influences. Assessment and management of developmental disabilities. Developing community services for children with disabilities. Prevention of developmental disability.

**PAED8203****Infant Feeding And Nutrition I***Staff Contact: Dr P McVeagh*

CP10 S2 HPW2

Lactation, breast feeding. Nutritional requirements. Feeding of infants and children. Infant formulas.

**PAED8204****Infant Feeding And Nutrition II***Pre-requisites:* PAED8203 or equivalent*Staff Contact: Dr P McVeagh*

CP10 S2 HPW2

Nutritional disorders in children. Childhood origin of adult diseases. Health and organic foods. Developing nutritional guidelines for children in care. The effect of social, cultural and food advertising on children's nutrition.

**PAED9100****General Paediatrics and Child Health***Staff Contact: Dr S Russell*

CP48

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: Dr S Russell*

CP12

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: Dr S Russell*

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.)

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## School of Physiology and Pharmacology

**PHPH5413/PHPH5513/PHPH5613****Sports Injuries 1***Staff Contact: Dr D Garlick*

CP15

**Note:** A compulsory subject for GradCertSpMed, GradDipSpMed, MSpMed

Sports injuries 1 describes dermatomes and myotomes and the implications for sports injuries. The anatomy of the shoulder, elbow, wrist and hand is described which provides the basis for describing sporting injuries to the shoulder, elbow, wrist and hand. The anatomy of the head and neck is described in order to deal with sporting injuries to the head, neck, eye, ear, nose and face. The anatomy of the trunk is described in order to deal with sports injuries to the chest, abdomen, back. Finally, on-field management of sports injuries is described.

**PHPH5423/PHPH5523/PHPH5623****Sports Injuries 2***Staff Contact: Dr D Garlick*

CP15

**Note/s:** A compulsory subject for GradCertSpMed, GradDipSpMed, MSpMed

Sports Injuries 2 deals with normal soft tissues and injuries to these in relation to muscles, tendons, ligaments and cartilage. Bone structure and function are described to understand injuries to bone. Anatomy of the pelvis, hip and thigh precedes consideration of injuries and their management in the groin, hip and thigh. Functional anatomy of the knee lays the basis for understanding acute and chronic injuries to the knee. Anatomy of the leg, ankle and foot is considered in relation to injuries to these regions.

**PHPH5433/PHPH5533/PHPH5633****Medical Applications of Exercise I***Staff Contact: Dr D Garlick*

CP15

**Note/s:** A compulsory subject for GradCertSpMed, GradDipSpMed, MSpMed

Medical Applications of Exercise 1 surveys the physiology of the cardiovascular system in its control and reflex

responses as well as the electrophysiology of the heart and the ECG. The effects of exercise on the cardiovascular system are discussed. Investigations of cardiovascular functions are illustrated, including stress testing. Primary, secondary and tertiary use of exercise in cardiac rehabilitation are considered. Cardiovascular aspects of special groups are described, in pregnant women, in hypertensive and diabetic patients.

**PHPH5443/PHPH5543/PHPH5643**  
**Medical Applications of Exercise 2**

*Staff Contact: Dr D Garlick*  
 CP15

**Note/s:** A compulsory subject for GradCertSpMed, GradDipSpMed, MSpMed.

Temperature regulation is considered as a basis for understanding hyperthermia in the athlete. Physiological and medical considerations are described in relation to the female athlete and in relation to children. Respiratory physiology and respiratory medicine provide the basis for understanding exercise-induced asthma, diving and altitude problems for the athlete.

**PHPH5414/PHPH5514**

**Sports Science**

CP15  
*Staff Contact: Dr D Garlick*

**Note/s:** A compulsory subject.

The biochemistry is described for intermediary metabolism and specifically aerobic and anaerobic metabolism in muscle and the hormonal control. Energy expenditure is considered in the resting and exercising person.

Muscle physiology deals with the contractile process and features of tensile force in relation to the different fibre types. The motor unit is described as are the sensory inputs to the central nervous system and its control of motor function. Biomechanical principles include a consideration of subjective, objective and predictive analysis.

Gastrointestinal physiology surveys the motility and digestive and absorptive activities of the gut.

**PHPH5424**  
**Research Methods**

CP15  
*Staff Contact: Dr D Garlick*

**Note/s:** A compulsory subject, for the Masters Course only.

Biostatistics deals with basic statistical functions including graphical presentation and interpretation of data. Epidemiological principles deal with defining a population and how to sample it and elicit data and describes epidemiological variables and attributes.

The student is introduced to the key components of a research study in sports medicine including the assessment of the relevance of a measurement technique to a given research question. The student develops an approved research project.

**PHPH5426/PHPH5526**  
**Applied Sports Medicine**

CP15  
*Staff Contact: Dr D Garlick*  
**Note/s:** A compulsory subject.

This subject brings together the strands dealt with in preceding subjects on sports injuries and medical applications of exercise.

Weekly topics include: the prevention of injury, including the screening of athletes pre-season; imaging in sports medicine, considering the use of X-Rays, CT and MRI, ultrasound, nuclear medicine; principles of rehabilitation in relation to types of stretching and strengthening, physical methods of soft tissue treatment, manipulation and mobilisation, proprioceptive re-training, taping; the use of non-steroidal anti-inflammatory drugs and corticosteroid injections; the management of rheumatological conditions in relation to physical activity; medical coverage of fun runs and other community events; the role of the team physician; legal and ethical aspects of sports medicine.

**PHPH5416/PHPH5516**  
**Sports Nutrition/Sports Pharmacology**

CP15  
*Staff Contact: Dr D Garlick*  
**Note/s:** A compulsory subject.

The subject examines food composition labels and dietary intakes of various sections of the community both sedentary and active. Nutrients are dealt with such as protein, carbohydrate, fats, dietary fibre, fluid intake, minerals and vitamins. The recommended dietary intakes are compared with actual intakes of various groups. Nutrition for special groups of physically active people is considered such as children, adolescents, pregnant and lactating women, the elderly, different ethnic groups. Energy balance is considered in relation to weight control.

Nutrition in performance-related activities is discussed in relation to requirements for metabolic fuels, dietary components, mineral and trace elements, fluid, aminoacid and vitamin supplements, training diet. Nutrition in health-related activities is discussed in reference to primary, secondary and tertiary prevention of problems in obesity, coronary heart disease, diabetes, eating disorders.

Basic pharmacology will be outlined and factors affecting pharmacokinetics in relation to routes of administration, plasma levels, volumes of distribution, calabolism and elimination. The effect of exercise on drugs *invivo* are discussed such as the altered absorption rates with reduced mucosal blood flow and enhanced exercising muscle and skin blood flows; also, the effects of thermal regulation. The interactions of medically prescribed drugs on the physically active person will be discussed systemically regarding cardiovascular drugs, anti-diabetic drugs, respiratory drugs, anti-inflammatory drugs (NSAIDs, corticosteroids), gastrointestinal drugs, psychotropics, antibiotics.

Banned drugs or agents used to enhance performance are dealt with such as stimulants, narcotics, anabolic steroids, beta blockers, diuretics, hormones (human growth

hormone, erythropoietin); blood doping, alkali agents. These will be discussed in relation to competitive activities and in relation to screening procedure. Identification procedures. Drug education and prevention of drug abuse are discussed.

#### **PHPH5417/PHPH5517**

##### **Sports Psychology/Clinical Biomechanics**

CP15

*Staff Contact: Dr D Garlick*

**Note/s:** A compulsory subject.

The psychological effects of exercise are described in relation to stress management, management of depression, sleep disorders, concepts of self-esteem and self-efficacy, effect on mental acuity and day-time fatigue, the contribution to the control of addictive behaviour.

The use of psychological procedures will be discussed in regard to motivation and compliance for subjects undertaking health-related activities as well as for athletes involved in performance-related activities.

The psychological aspects of injury will be dealt with in considering the psychological problems encountered by the injured recreationally active person and also by the athlete.

Behavioural problems are discussed such as exercise-addiction and body weight problems.

In regard to stress, there will be discussion of the mental state and the functioning of the immune system and the inter-relations between stress exercise and the components of the immune system. This will be discussed in relation to the incidence of infection in the competitive athlete.

Clinical biomechanics applies basic aspects of biomechanics to joint movements encountered in a wide variety of sporting activities to elucidate the problems that can arise from inappropriate repetitive movements resulting in micro- and macro-trauma.

#### **PHPH5445**

##### **Research Project and Report**

CP15

*Staff Contact: Dr D Garlick*

**Note/s:** A compulsory subject for MSpMed.

The Project will be planned and approved in undertaking the subject Research Methods. The Project, conducted over six months part-time, will involve research into an area of sports medicine at a clinical or basic level which contributes new knowledge to the field. The Project is to be presented as a scientific Report of about 8-10 000 words.

#### **PHPH5461**

##### **Principles of Pharmacology**

*Staff Contact: Dr M Fryer*

CP32 S1

This subject introduces the principles of pharmacology and also covers the systematic pharmacology of selected drug groups. It is designed for students with a background in biotechnology but with little or no knowledge of pharmacology. The subject covers topics such as dose response relationships, drug absorption, metabolism and

elimination, autonomic pharmacology, autacoids, pharmacokinetics and toxicology.

#### **PHPH5471**

##### **Advanced Pharmacology**

*Staff Contact: Dr M Fryer*

CP24 S2

*Prerequisites:* PHPH3152, PHPH5461

This subject is an advanced coverage of pharmacological topics including receptor binding, pharmacokinetics, drug assays, drug development, toxicology, autacoids and ion channels. The lecture material is supplemented by computerised analysis of data derived from experiments on receptor binding, dose response relationships and pharmacokinetics. Considerable emphasis is placed on the many aspects of drug development.

#### **PHPH5481**

##### **Advanced Pharmacology – Project Major**

*Staff Contact: Dr M Fryer*

CP64

A laboratory or industry based project in the area of drug development.

#### **PHPH5491**

##### **Advanced Pharmacology – Project Minor**

*Staff Contact: Dr M Fryer*

CP32

A small laboratory or industry based project or an extensive literature review or extensive data analysis in the area of drug development.

#### **PHPH9100**

##### **Discovery and Development of New Medicines 1**

*Staff Contact: Prof R Day*

CP15 S1

Development of new medicines: history and philosophy of development of new medicines. Process of discovery: screening/molecular modelling resulting in identification of lead compounds. Refinement of lead compounds, biological testing in laboratory animals, tissues or tissue components. Choice of chemical entity for further development and identification of back-up compounds. Preclinical studies of selected compound: the value and limitations of animal models in predicting clinical efficacy and potential adverse effects: mechanism of action, screening for total biological effects, toxicology. Factors involved in choosing compounds for clinical development: scientific merit, medical utility, uniqueness, commercial value, compatibility with company strategies, facilities available for development. Selection of back-up compound. Project management: identification of commercial/medical objectives, preclinical issues, clinical development strategies. Company strategies: decision path analyses, resources, time-lines. Clinical trial program: phases 1, 2, 3 and 4. Clinical research plan: time-lines, study designs, dose-ranging, choice of test populations, indications, trial locations, data treatment, Go/No Go criteria.



**PHPH9101****Principles of Drug Action***Staff Contact: Prof R Day*

CP15 S1

This subject provides a general overview of pharmacodynamics and pharmacokinetics including the following topics. The dose-response relationship as a function of pharmacokinetics and pharmacodynamic properties. Qualitative discussion of the factors involved in determining pharmacokinetic properties: routes of administration, formulation, absorption, distribution, elimination (metabolism and excretion). Quantitative investigation of pharmacokinetic variables (bioavailability, volume of distribution, clearance, half-lives, etc). The use of pharmacokinetic variables in dosage optimisation. Qualitative discussion of pharmacodynamic mechanisms: specific and non-specific mechanisms. Receptors and signal transduction. Agonists, partial agonists and antagonists. Quantitative investigation of drug-receptor interactions. The influence of non-drug factors (disease states, age, genetics, etc) on pharmacokinetic and pharmacodynamic parameters, and hence on the dose-response relationship.

**PHPH9102****Pharmaceutical Formulation 1***Staff Contact: Prof R Day*

CP15 S2

The manufacture of new compounds, the choice of formulations and pharmaceutical labelling. The influence of pharmacokinetics and pharmacodynamics on product development. Methods of testing for bioequivalence, stability, impurity and incompatibility. Formulation for toxicology and for quality control. Preparation of materials for clinical trials including distribution and disposal of remaining stock. Long-term stability studies. Principles of labelling for clinical use. Problems associated with scaling pilot syntheses and product fabrication to large-scale production.

**PHPH9103****Clinical Trials and Data Analysis***Staff Contact: Prof R Day*

CP15 S2

Principles of clinical epidemiology and clinical trial design. Purpose and fundamentals of statistics and data management. Biological variability of measures. Interpretation: distribution, averages, normal. Appropriateness of statistical tests. Testing the null hypothesis: statistical significance; type 1 and type 2 errors and power calculations. Interpretation. Data management. Critical appraisal. Scientific issues in the design and conduct of clinical trials: statement of hypothesis, choice of endpoints, selection of subjects (number, inclusion, exclusion), randomization, controls, statistical power (type 1 and 2 errors). Trial design: parallel, cross-over, longitudinal, other. Importance of early statistical input in trial design. Efficacy, effectiveness, compliance, generalisability, strength, comparisons, Hawthorne and placebo effects, surrogate endpoints. Monitoring ethics,

patient consent. Data treatment. Preparation of clinical trial protocols: phase 1, 2 and 3 trials. Clinical report forms. Research Ethics Committees. Regulatory approval. Good Clinical Research Practice (GCRP). Reporting results: statistics, presentation format, publication and reporting of results. Regulatory processes, CTX, CTN. Financial and contractual arrangements: budgets, compensation.

**PHPH9104****Law, Ethics and the Regulation of the Development and Use of Medicines***Staff Contact: Prof R Day*

CP15 S2

This subject provides a general overview of the ethical issues and laws relevant to the development and marketing of medicines. It includes the following topics. State and Commonwealth Constitutional powers. Common Law, statutory law, accountability, natural justice. Laws relating to the development and sale of medicines; patients, intellectual property, trade practices. Ethical issues in drug development and marketing. Preparation and submission of marketing applications, approval and appeal processes. Principles of Good Clinical Research Practice (GCRP). The ethical review process, consent procedures in biomedical research. The philosophy of regulation of drug use: input of industry, Government, consumer. The regulatory principles regarding the use of developmental drugs in human subjects and the practical consequences of these on the design and conduct of clinical investigations. The organisation of the regulatory processes in Australia: The Therapeutic Goods Administration and advisory bodies (ADEC, ADRAC etc). The Pharmaceutical Benefits Advisory Committee. Submissions regarding cost-effectiveness. Preparation and submission of an application for approval to test or market a drug and the relevant appeal processes. Integration of regulatory affairs into the pre- and post-marketing planning and review of product development strategies. Input from international bodies and national agencies.

**PHPH9105****Pharmacovigilance***Staff Contact: Prof R Day*

CP15 S2

Adverse drug reactions (ADRs): history – medical and political consequences. Development of ADR monitoring bodies: international, Australia. Regulatory requirements for reporting ADRs: new drugs, established drugs. Classification of ADRs: predictable and unpredictable. Mechanisms of adverse drug reactions and interactions including carcinogenicity and teratogenicity: Risk factors that increase the likelihood of ADRs (genetic, age-related, disease-related, etc). Monitoring for potential ADRs: prospective and retrospective studies; intensive surveillance and spontaneous reporting. Determining risk and causality. Cost-benefit considerations. Investigation of ADR reports: company follow-up. Legal issues. Description of ADRs and adverse drug interactions in Product Information.

**PHPH9106****Pharmaceutical Information Services**

*Staff Contact: Prof R Day*  
CP7.5 S1

This subject deals with the provision of information by pharmaceutical companies about their products both for internal use (e.g. in drug development) and for external use (e.g. for prescriber and consumer). Topics covered include the following. Development of prescribing information for doctors, pharmacists and patients: (a) during the drug development phase; (b) in the marketing phase. Development of patient educational material. The regulatory basis for the Australian Approved Product Information (PI) and the Australian Consumer Product Information (CPI) and their relationship to similar documents in other countries. Preparation, review and revision of these documents: regulations, codes of practice, Trade Practices Commission, product liability issues. Relevance of general law to product information. Promotional policy and procedures. Development of a promotional campaign: roles of the medical and marketing departments. Company approved procedures. Support needed for claims. The use of samples. The impact of State and Commonwealth Laws and industry codes. The role of the company representative: background and training, interaction with medical department staff, APMA Code of Conduct. Educational meetings and the ethics of product promotion through sponsorship activities: conferences, symposia, publications, overseas travel, research support.

**PHPH9107****Therapeutics and the Molecular Basis of Disease I**

*Staff Contact: Prof R Day*  
CP7.5 S2

This subject consists of coursework only and aims to provide a basis for understanding the mechanisms involved in the disordered physiology that underlies common disease states. The object is to provide an understanding of those disorders that are amenable to correction or amelioration with drug therapy. It thus provides a rationale for drug design and utilization. The subject consists of four main sections. Section 1 is a review of relevant features of general biology with emphasis on (a) modern systems of taxonomy (natural products are still a major source of lead compounds for developing new therapeutic agents) and (b) biochemistry with emphasis on those aspects relevant to molecular biology and biochemical pharmacology (the other two main areas involved in new drug development). Section 2 deals with cellular injury and death and covers causes of cell injury, general mechanisms of cell injury and necrosis, apoptosis, stress proteins and cell injury, subcellular alterations in cell injury, intracellular accumulations, pathologic calcification, hyaline change, cellular aging. Section 2 also covers cellular growth and differentiation including control of cell growth, extracellular matrix and cell-matrix interactions, and cellular adaptations of growth and differentiation. Section 3 deals with inflammation and repair and covers acute inflammation, chemical mediators of inflammation, chronic inflammation, morphologic patterns in acute and chronic

inflammation, systemic effects of inflammation, wound healing. Section 4 covers oedema, hyperaemia and congestion, haemorrhage, haemostasis and thrombosis, embolism, and shock.

**PHPH9108****The Therapeutic Basis of Drug Use and Development 1**

*Staff Contact: Prof R Day*  
CP7.5 S2

This subject consists of coursework only and aims to provide an understanding of the medical problems and treatments that need to be understood in developing new therapeutic agents and optimising their use. Emphasis will be on highlighting the strengths and weaknesses of present therapies and identification of current research aimed at developing new therapeutic agents. Disorders resulting from adverse drug reactions will be identified. General Pathophysiology is a prerequisite for this subject. The subject will provide an integrated description of relevant physiology, pathophysiology, disease state manifestations and clinical pharmacology with respect to the following disease states: (a) infectious disease: bacterial, fungal, viral and parasitic infections; (b) immunological disorders: immunodeficiency diseases, hypersensitivity, transplantation; (c) haematology: anaemias, haemorrhagic disorders, disorders of white blood cells, leukaemias, lymphomas; (d) cardiovascular disorders: cardiac arrhythmia, ischaemic heart disease, heart failure, hypertension, vascular disorders; (e) respiratory tract disorders: upper respiratory tract disorders, asthma, chronic obstructive pulmonary disease, acute bronchitis, bronchiectasis, cystic fibrosis, pneumonia.

**PHPH9109****The Therapeutic Basis of Drug Use and Development 2**

*Staff Contact: Prof R Day*  
CP7.5 S2

This subject consists of coursework only and aims to provide an understanding of the medical problems and treatments that need to be understood in developing new therapeutic agents and optimising their use. Emphasis will be on highlighting the strengths and weaknesses of present therapies and identification of current research aimed at developing new therapeutic agents. Disorders resulting from adverse drug reactions will be identified. General Pathophysiology is a prerequisite for this subject. The subject will provide an integrated description of relevant physiology, pathophysiology, disease state manifestations and clinical pharmacology with respect to the following disease states: (a) gastrointestinal disorders: oesophageal disorders, gastritis, peptic ulcer, diarrhoea and constipation, gastroenteritis, malabsorption syndromes, chronic inflammation of the bowel, gastrointestinal neoplasms; (b) hepatic and biliary disorders: jaundice, ascites, fibrosis, cirrhosis, hepatitis, neoplasms; (c) nutritional and metabolic disorders: nutrition, nutritional deficiencies, obesity, water/electrolyte/acid-base metabolism; (d) endocrine disorders: disorders of the pituitary, thyroid, adrenal glands; disorders

of carbohydrate metabolism; (e) renal tract disorders: renal failure, disorders of renal tubule function, obstructive uropathies, myoneurogenic disorders, incontinence, neoplasms; (f) gynaecological disorders: common problems, amenorrhoea and abnormal bleeding, endometriosis, breast disorders, neoplasms.

#### **PHPH9110**

##### **The Therapeutic Basis of Drug Use and**

##### **Development 3**

*Staff Contact: Prof R Day*

CP7.5 S2

This subject consists of coursework only and aims to provide an understanding of the medical problems and treatments that need to be understood in developing new therapeutic agents and optimising their use. Emphasis will be on highlighting the strengths and weaknesses of present therapies and identification of current research aimed at developing new therapeutic agents. Disorders resulting from adverse drug reactions will be identified. General Pathophysiology is a prerequisite for this subject. The subject will provide an integrated description of relevant physiology, pathophysiology, disease state manifestations and clinical pharmacology with respect to the following disease states: (a) neurologic disorders: seizure disorders, sleep disorders, cerebrovascular disease, CNS infection and neoplasms, demyelinating diseases, disorders of movement, spinal cord disorders, peripheral nervous system disorders; (b) psychiatric disorders: personality disorders, drug dependence, neuroses, mood disorders, schizophrenic disorders, delusional disorders; (c) musculoskeletal and connective tissue disorders: rheumatoid arthritis and other diffuse connective tissue disease, arthritis associated with spondylitis, osteoarthritis, infections and neoplasms of the bones, crystal-induced conditions, bone and cartilage disorders, nonarticular rheumatism; (d) ophthalmological disorders: disorders of the eyelids, conjunctiva, and cornea; cataract, uveal tract disorders, retinal disorders, glaucoma, disorders of the optic nerve; (e) dermatological disorders: dermatitis, scaling disorders, disorders of the hair follicles and sebaceous glands, skin infections — bacterial, viral, parasitic, fungal, drug eruptions and similar inflammatory disorders of the skin, disorders of cornification, tumours.

#### **PHPH9111**

##### **Pharmaceutical Formulation 2**

*Staff Contact: Prof R Day*

CP15 S2

This subject consists of coursework only and will extend the principles covered in Pharmaceutical Formulation and will include the following topics: (a) the formulation and *in vitro* assessment of oral controlled-release products; (b) the formulation and *in vitro* assessment of novel dosage forms such as transdermal therapeutic systems and osmotic pumps; (c) principles of accelerated stability testing of conventional dosage forms including the techniques for using data from accelerated stability tests for prediction of shelf life; (d) the pharmaceuticals of multiphase formulations such as microemulsions and liposomes; (e) selected topics

in bioavailability including statistical design and analysis of bioavailability studies and the design and interpretation of studies designed to assess the bioavailability of controlled-release products; (f) the preparation of biotechnology products by recombinant techniques, their physical and chemical properties, including stability and compatibility, and approaches to their formulation (an alternative to this last topic will be provided for students taking the Biopharmaceuticals electives).

#### **PHPH9112**

##### **Advanced Pharmacokinetics**

*Staff Contact: Prof R Day*

CP15 S2

This subject greatly extends the introduction to pharmacokinetics given in the core module *Principles of Drug Action*, with particular emphasis being given to new aspects of pharmacokinetics. Topics to be covered include (a) rigorous discussion of accumulation kinetics; (b) computerised methods of fitting theoretical equations to the time course of plasma concentrations in individual patients; (c) population kinetics — this is an important aspect of modern pharmacokinetics in which limited data from individual patients can be used to obtain pharmacokinetic parameters; and (d) analysis of the time course of drug effect — pharmacodynamic/pharmacokinetic analysis provides an understanding of the factors controlling the time course of drug effect and is used widely in modern pharmacokinetic research.

#### **PHPH9113**

##### **Advanced Regulatory Affairs**

*Staff Contact: Prof R Day*

CP15 S2

This subject will extend the core subject *Law, Ethics and the Regulation of the Development and Use of Medicines*, for example, by providing a comprehensive examination of the role of the international regulatory agencies such as those of the European Union and the United States and their influence on the Australian regulatory processes examined. Other aspects of the regulatory process mentioned briefly in the core subject, such as issues relating to pharmaceutical chemistry, will be considered in more detail. However, the major emphasis of the subject will be on case study and critical appraisal. Students will review registration dossiers, write evaluation reports and prepare Pre-ADEC responses. The focus of this work will be the optimisation of the regulatory process. Students will also participate in a mock Australian Drug Evaluation Committee (ADEC) meeting to gain an understanding of that Committee's procedures and decision-making processes. It is envisaged that some students may choose to undertake projects that would require some time to be spent at the Therapeutic Goods Administration.

#### **PHPH9114**

##### **Pharmacoeconomics**

*Staff Contact: Prof R Day*

CP15 S2

As limits are placed on health care budgets, from the national to the individual level, the relative value of

competing uses of scarce resources is becoming a significant part of decision making. The real cost of any health care budgetary decision is not the dollars spent but the loss of benefits that would have been obtained by using the money in different ways. This realisation has led to the application of economic evaluation to the health care choices in an attempt to maximise the value obtained from limited health-care budgets. Economists have developed a number of techniques and concepts which, although not providing 'the answer', can assist the decision maker in identifying, setting out and analysing the many factors that influence such difficult but necessary choices. Pharmacoeconomics is a subdiscipline of health care economics and is concerned with the methods used by economists in the evaluation of choices in the allocation of pharmaceuticals. This subject consists of two parts: (a) Basic Concepts and (b) Applications and Decision. Part (a) covers methodological issues, cost-of-illness studies, types of economic analysis which are relevant to drugs, calculation of economic cost, decision analysis, examples of published analyses, and economic analysis in developing countries. Part (b) covers budgetary constraints, managing future budgets, use of economic analysis in policy making, policy developments, Australian policies, The Australian Guidelines, and the need for an evidence-based approach.

#### **PHPH9115**

##### **Clinical Trials Management**

*Staff Contact: Prof R Day*

CP7.5 S1

*Prerequisites:* PHPH9011, PHPH9103

The object of this module is to review and understand the responsibilities of the Sponsor and its employee's, the Investigator, the Clinical Trials facility and its staff, the Research Ethics Committee, the Contract Research Organisation and finally the participants in a clinical trial. Issues relevant to each of the partners will be covered. These include: for the Sponsor; CTN or CTX scheme, preparation of the data package (covering letter to research ethics committee, investigators brochure, protocol, indemnity release, patient information sheets, and detailed budgeting) monitoring responsibilities, investigators meetings; for the Research Ethics Committee, review of the initial data package, review of quality of informed consent and monitoring responsibilities; for the Investigators, recruitment, education, involvement in protocol development, role in data collection and recruiting, collection of adverse events data, and methodology for gaining consent; for the CRO, overall trial management, choosing a site, and auditing a trial. A common theme will be implementation of guidelines for Good Clinical Research Practice. Students will review data packages for research ethics committees. Assessable activities will include a critical appraisal of a range of data packages for presentation to the ethics committee, presentation of an investigator's start up meeting, and a simulated trial monitoring experience. An assignment focusing on monitoring clinical trials from a Sponsor's point of view will be undertaken. Experiential activities undertaken might include attendance at an investigator's meeting, a protocol development meeting, and a research ethics committee meeting.

#### **PHPH9116**

##### **Advanced Clinical Trials Management**

*Staff Contact: Prof R Day*

CP15 S2, S2

*Prerequisites:* PHPH9100, PHPH9103, PHPH9115

The focus of the advanced module will be the practical application of the underlying principles encountered in the core course on clinical trials management. Students will prepare a complete data package for the research ethics committee (REC) for a study submitted as part of the clinical trials notification (CTN) scheme as the major focus and assessment task for this module. The trial will be multi-centred and early phase, that is Phase II to III. There will be potential serious toxicities and a data safety monitoring committee will need to be established. Students will develop the clinical trials protocol, the draft patient consent form, and case report form (CRF). The application package will be assessed by a mock REC and the student will be asked to respond to questions and criticisms raised by the REC.

#### **PHPH9117**

##### **Pharmaceutical Manufacturing and Quality Control**

*Staff Contact: Prof R Day*

CP15 S1, S2

*Prerequisites:* PHPH9100, PHPH9102, PHPH9103

An understanding of manufacturing in the pharmaceutical industry will be provided by describing the way in which raw materials are processed into particular dose forms. Using examples of enteral, parenteral and topical products, sampling of raw materials and their subsequent characterisation, followed by the common manufacturing operations and stability and bioavailability will be explored. For example, how particle size or shape or crystal polymorphism can effect mixing of powders and the flow of the powders into the tablet machine as well as dissolution behaviour will be reviewed. Since the aim of manufacturing is to produce a product of a high quality, the principles involved in good manufacturing practice and good laboratory practice and optimizing processes will be studied. This will be both qualitative and quantitative in nature (latter includes statistical methods for process optimization). The relevant national and international codes and guidelines and their relationships to each other and the ongoing process of harmonizing standards will be introduced.

#### **PHPH9118**

##### **Therapeutics and the Molecular Basis of Disease 2**

*Staff Contact: Prof R Day*

CP7.5 S1, S2

*Prerequisites:* MDCN9107

This subject aims to provide a basis for understanding the mechanisms involved in the disordered physiology that underlies common disease states. The object is to provide an understanding of those disorders that are amenable to correction or amelioration with drug therapy. It thus provides a rationale for drug design and utilization. The subject consists of four main sections: immunology and diseases of immunity; genetic disorders; neoplasia; and infection. Immunology and diseases of immunity includes a review

of normal immune system mechanisms (cells of the immune system, cytokines, histocompatibility antigens, and hypersensitivity reactions); mechanisms of autoimmune diseases, immunologic deficiency syndromes, other actual or suspected immune system diseases (e.g. amyloidosis). Genetic disorders includes a brief section on the 'new genetics', mutations, mendelian disorders, disorders with multifactorial inheritance, normal karyotype cytogenetic disorders, single-gene disorders with nonclassic inheritance, molecular diagnosis. Neoplasia includes definitions and nomenclature, characteristics of benign and malignant neoplasms, epidemiology, molecular basis of cancer, biology of tumour growth, carcinogenic agents and their cellular interactions, host defence mechanisms, clinical features of tumours. Infection includes a brief introduction to microbiology, general principles of microbial pathogenesis, discussion of selected human infectious diseases.

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## School of Psychiatry

### **PSCY9106**

#### **Psychological Medicine 1**

*Staff Contact: Prof G Andrews*

CP25 S1

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*

CP25 S2

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*

CP25 S1

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*

CP25 S2

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*

CP25 F

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



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# Conditions for the Award of Degrees

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## 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.

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## Higher Degrees

For the list of graduate degrees by research and course work, arranged in faculty order, see *UNSW Courses (by faculty)* in the *Calendar*.

Title	Abbreviation	Calendar/Handbook
<b>Higher Degrees</b>		
Doctor of Science	DSc	Calendar
Doctor of Letters	DLitt	Calendar
Doctor of Laws	LLD	Calendar
Doctor of Education	EdD	Arts and Social Sciences
Doctor of Juridical Science	SJD	Law
Doctor of Medicine	MD	Medicine
Doctor of Philosophy	PhD	Calendar
Master of Architecture	MArch	and all handbooks
Master of Archives Administration	MArchivAdmin	Built Environment
Master of Art	MArt	Commerce and Economics
Master of Art Administration	MArtAdmin	College of Fine Arts
Master of Art and Design Education	MArtDesEd	College of Fine Arts
Master of Art Education(Honours)	MArtEd(Hons)	College of Fine Arts
Master of Arts	MA	College of Fine Arts
		Arts and Social Sciences
		University College
Master of Arts (English)	MA(English)	University College
Master of Arts (Honours)	MA(Hons)	Arts and Social Sciences
Master of Art Theory	MArtTh	College of Fine Arts

Title	Abbreviation	Calendar/Handbook
Master of Biomedical Engineering	MBiomedE	Engineering
Master of Building	MBuild	Built Environment
Master of the Built Environment (Sustainable Development)	MBEnv	Built Environment
Master of the Built Environment (Building Conservation)	MBEnv	Built Environment
Master of Business Administration	MBA	AGSM
Master of Business Administration (Executive)	MBA(Exec)	AGSM
Master of Business and Technology	MBT	Engineering
Master of Clinical Education	MClinEd	Medicine
Master of Commerce (Honours)	MCom(Hons)	Commerce and Economics
Master of Commerce	MCom	Commerce and Economics
Master of Community Health	MCH	Medicine
Master of Community Paediatrics	MCommPaed	Medicine
Master of Computer Science	MCompSc	Engineering
Master of Construction Management	MConstMgt	Built Environment
Master of Couple and Family Therapy	MCFT	Arts and Social Sciences
Master of Defence Studies	MDefStud	University College
Master of Design(Honours)	MDes(Hons)	College of Fine Arts
Master of Medical Science in Drug Development	MMedSc	Medicine
Master of Education	MEd	Arts and Social Sciences
Master of Educational Administration	MEdAdmin	Arts and Social Sciences
Master of Engineering	ME	Science* Engineering University College
Master of Engineering <i>without supervision</i>	ME	Science* Engineering
Master of Engineering Science	MEngSc	Engineering University College
Master of Environmental Engineering Science	MEnvEngSc	Engineering
Master of Environmental Studies	MEnvStudies	Science and Technology
Master of Equity & Social Administration	MEqSocAdmin	Arts and Social Sciences
Master of Fine Arts	MFA	College of Fine Arts
Master of Health Administration	MHA	Medicine
Master of Health Planning	MHP	Medicine
Master of Health Professions Education	MHPed	Medicine
Master of Higher Education	MHEd	Arts and Social Sciences
Master of Housing Studies	MHS	Arts and Social Sciences
Master of Industrial Design	MID	Built Environment
Master of Information Management	MIM	Commerce and Economics
Master of Information Science	MInfSc	Engineering
Master of International Social Development	MIntSocDev	Arts and Social Sciences
Master of Medicine	MMed	Medicine
Master of Landscape Architecture	MLArch	Built Environment
Master of Landscape Planning	MLP	Built Environment
Master of Laws	LLM	Law
Master of Management Studies	MMgtStud	University College
Master of Medicine	MMed	Medicine
Master of Mining Management	MMinMgmt	Engineering
Master of Music	MMus	Arts and Social Sciences
Master of Music (Honours)	MMus(Hons)	Arts and Social Sciences
Master of Music Education (Honours)	MMusEd(Hons)	Arts and Social Sciences
Master of Optometry	MOptom	Science*
Master of Policy Studies	MPS	Arts and Social Sciences
Master of Professional Ethics	MProfEthics	Arts and Social Sciences



Title	Abbreviation	Calendar/Handbook
Master of Psychological Medicine	MPM	Medicine
Master of Psychology (Clinical)	MPsychol(Clin)	Science†
Master of Psychology (Forensic)	MPsychol (For)	Science†
Master of Psychology (Organisation)	MPsychol(Org)	Science†
Master of Public Health	MPH	Medicine
Master of Real Estate	MRE	Built Environment
Master of Real Property	MRProp	Built Environment
Master of Safety Science	MSafetySc	Science
Master of Science	MSc	Built Environment Engineering Medicine Science*† University College
Master of Science <i>without supervision</i>	MSc	Science* Built Environment Engineering Medicine
Master of Science (Industrial Design)	MSc(IndDes)	Built Environment
Master of Science and Society (Honours)	MScSoc(Hons)	Arts and Social Sciences
Master of Science and Technology	MScTech	Science*
Master of Science in Information Technology	MScInfTech	University College
Master of Science in Operations Research and Statistics	MScOpRes&Stats	University College
Master of Social Work	MSW	Arts and Social Sciences
Master of Sports Medicine	MSpMed	Medicine
Master of Statistics	MStats	Science*
Master of Surgery	MS	Medicine
Master of Taxation	MTax	ATAX
Master of Technology Management	MTM	Science* Commerce and Economics Engineering
Master of Town Planning	MTP	Built Environment
Master of Urban Development and Design	MUDD	Built Environment

### Graduate Diplomas

Graduate Diploma	GradDip	AGSM Built Environment Arts and Social Sciences Commerce and Economics Engineering Law Science*†
Advanced Taxation	GradDipAdvTax	ATAX
Arts	GradDipArts	Arts and Social Sciences
Arts(English)	GradDipArts(English)	University College
Built Environment (Sustainable Development)	GradDipBEnv	Built Environment
Couple and Family Therapy	GradDipC/F Therapy	Arts and Social Sciences
Clinical Education	GradDipClinEd	Medicine
Community Paediatrics	GradDipCommPaed	Medicine
Defence Studies	GradDipDefStud	University College
Design	GradDipDes	College of Fine Arts
Drug Development	GradDipDD	Medicine
Education	DipEd	Arts and Social Sciences
Engineering Science	GradDipEngSc	University College

Title	Abbreviation	Calendar/Handbook
Environmental Studies	GradDipEnvironStud	Science
Equity and Social Administration	GradDipEq&SocAdmin	Arts and Social Sciences
Geriatric Medicine	GradDipGerMed	Medicine
Higher Education	GradDipHEd	Arts and Social Sciences
Health Professions Education	GradDipHPed	Medicine
Housing Studies	GradDipHS	Art and Social Sciences
Industrial Management	GradDipIndMgt	Engineering
International Social Development	GradDipIntSocDev	Arts and Social Sciences
Land Administration	GradDipLandAdmin	Engineering
Management Studies	GradDipMgtStud	University College
Music	GradDipMus	Arts and Social Sciences
Paediatrics	GradDipPaed	Medicine
Policy Studies	GradDipPolicy	Arts and Social Sciences
Professional Ethics	GradDipProfEthics	Arts and Social Sciences
Public Health	GradDipPH	Medicine
Sports Medicine	GradDipSpMed	Medicine
Statistics	GradDipStats	Science*
Taxation Studies	GradDipTaxStud	ATAX

### Graduate Certificates

Arts	GradCertArts	Arts and Social Sciences
Arts(English)	GradCertArts(English)	University College
Commerce	GradCertCom	Commerce and Economics
Design	GradCertDes	College of Fine Arts
Drug Development	GradCertDD	Medicine
Engineering Science	GradCertEngSc	University College
Geriatric Medicine	GradCertGerMed	Medicine
Health Services Management	GradCertHSM	Medicine
Health Professions Education	GradCertHPed	Medicine
Higher Education	GradCertHEd	Arts and Social Sciences
Information Technology	GradCertInfTech	University College
Management Studies	GradCertMgtStud	University College
Music	GradCertMus	Arts and Social Sciences
Operations Research and Statistics	GradCertOpRes&Stats	University College
Policy Studies	GradCertPolicy	Arts and Social Sciences
Public Health	GradCertPH	Medicine
Safety Science	GradCertSafetySc	Science*
Science and Technology	GradCert	Science*
Sports Medicine	GradCertSpMed	Medicine

\*Faculty of Science and Technology

†Faculty of Life Sciences

### 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;
- (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 including hypothesis generation, design and execution of experiments, supervision of others doing experiments, analysis of results, and contribution to meetings of the research team.

## 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.

*†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.*

*“School” if used here and elsewhere in these conditions to mean any teaching unit authorized to enrol research students and includes a department where that department is not within a school, or schools or departments where the research is being undertaken in more than one school or department; 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.*

## 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(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;

2(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.

## **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 represent 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.

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## **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 contribution 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;

(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 represent 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.

*\* 'School' if used here and elsewhere in these conditions to mean any teaching unit authorized to enrol research students and includes a department where that department is not within a school, or schools or departments where the research is being undertaken in more than one school or department; 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.*

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## 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, 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 cosupervisor 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 cosupervisor 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;

*\*'School' if used here and elsewhere in these conditions to mean any teaching unit authorized to enrol research students and includes a department where that department is not within a school, or schools or departments where the research is being undertaken in more than one school or department; 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.*



- (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 reexamination.
  - (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 represent 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.

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## **Master of Clinical Education (MClined)**

- 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.

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## 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 organisation or institution will have a cosupervisor 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 reexamination.

(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 represent 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 Community Paediatrics (MCommPaed)**

1. The degree of Master of Community Paediatrics may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

### Qualifications

2. (1) A candidate for the degree shall:

- (a) have been awarded a relevant degree of Bachelor of three 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 (hereafter referred to as the Committee) and
- (b) be professionally engaged in looking after the health of children.

(2) An applicant who submits evidence of such 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 four calendar months before the commencement of the course.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of the 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 the case of a full-time candidate or eight 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 time may be granted by the Committee.

### Examination

4. (1) Assessment is based on satisfactory completion of written examination questions during and at the end of each subject and the satisfactory completion of assignments.

(2) The degree of Master of Community Paediatrics will be awarded after satisfactory completion of a program of 170 credit points including a major project.

### Fees

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

## Master of Medical Science in Drug Development (MMedSc)

1. The degree of Master of Medical Science in Drug Development may be awarded by the Council to a candidate who has satisfactorily completed the prescribed programme of advanced study for the award.

### Qualifications

#### Definitions

The Committee is the Higher Degree Committee of the Faculty of Medicine.

A Relevant Degree is a degree in the biological sciences or cognate professional disciplines. Graduates in non-relevant disciplines may be admitted if they have had significant direct or indirect involvement with the pharmaceutical industry and the development of pharmaceutical

products. In some cases, applicants may be required to undertake a course of reading in relevant subject areas before commencing the course.

### **Candidature**

2. (1) A candidate for the Degree of Master of Medical Science in Drug Development:

- (a) Shall have been awarded a relevant degree 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.
- (b) Students not qualified to enrol in the Master's programme but who are qualified to enrol in the Diploma, may, at the successful completion of the Diploma programme and at the discretion of the Committee, convert their candidature to that of Master.
- (c) 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 award shall be made on the prescribed form and lodged with the Registrar at least three calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the award 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) The minimum and maximum periods of part-time candidature shall be 6 and 10 academic sessions.

(5) Articulation: a candidate holding the award of Graduate Diploma in Drug Development from the University of New South Wales who, at a later date, wishes to enrol for the degree of Master of Medical Science in Drug Development may, at the discretion of the Committee, be awarded the degree after the successful completion of an additional 720 PAH of study (90 Credit Points). Re-entry will not be permitted until at least two sessions have elapsed since completion of the prior course. The minimum time in which a student could complete the requirements for both the Graduate Diploma and the Master's award would be nine sessions as compared with six sessions for those who proceeded directly to the Master's degree.

### **Fees**

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

## **Master of Health Administration (MHA) *by Research***

1. The degree of Master of Health Administration 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 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 qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee, and

(ii) have had 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) 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 of Health Administration (hereinafter referred to as the head of the school) shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:

(a) full-time attendance at the University;

(b) part-time attendance at the University;

(c) external – not in regular attendance at the University and using research facilities external to the University.

(4) A candidate shall be required to undertake an original investigation or design on an approved topic. The candidate may also be required to undergo such examination and perform such other work as may be prescribed by the Committee.

(5) The work shall be carried out under the direction of a supervisor appointed from the full-time members of the University staff.

(6) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

(7) No candidate shall be 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 or design.

(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 represent 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.

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## **Master of Health Administration (MHA) by Formal Course Work**

1. The degree of Master of Health Administration 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 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 Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as 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) There is normally an experience requirement of three years experience in the health field. Those students who are inexperienced (ie less than three years) in the health service field are required to undertake a planned program of field experience in addition to the twelve subjects.

### **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 by 30 November of the year before the year in which enrolment is to begin. Late applications may be considered by the School's Selection Committee.

(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 or external 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 or external 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 Professions Education (MHPed) *by Research***

1. The degree of Master of Health Professions 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 organisation or institution will have a cosupervisor 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 reexamination.

(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 represent 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.

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## **Master of Health Professions Education (MHPed) by Formal Course Work**

1. The degree of Master of Health Professions 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.

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## **Master of Health Planning (MHP)**

1. The degree of Master of Health Planning 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)(i) 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 Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), and

(ii) have had at least three years experience in the health services of a kind 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 a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee, and

(ii) either have undertaken appropriate postgraduate or professional studies at a level acceptable to the Committee or have had 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 by 30 November of the year before the year in which enrolment is to begin. Late applications may be considered by the School's Selection Committee.

(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 or external 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 or external 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.

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## **Master of Medicine (MMed) by Research *with Supervision***

1. The degree of Master of Medicine 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 have been awarded 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.

(2) A candidate shall have had at least 3 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, 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 of Community Medicine shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:

- (a) full-time attendance at the University;
- (b) part-time attendance at the University;
- (c) external not in regular attendance at the University and using research facilities external to the University

(4) A candidate shall be required to undertake an original investigation on an approved topic. The candidate may also be required to undergo such examination and perform such other work as may be prescribed by the Committee.

(5) The work shall be carried out under the direction of a supervisor appointed from the full-time members of the University staff.

(6) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the Head of the School of Community Medicine or his/her delegate 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.
- (a) the candidate be awarded the degree without further examination; or
  - (b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the Head of the School; or
  - (c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or
  - (d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or
  - (e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.
- (4) If the performance at the further examination recommended under (3)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.
- (5) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate may 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.

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## **Master of Medicine (MMed) by Research *Without Supervision***

1. The degree of Master of Medicine by research 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 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 of Medicine and Bachelor of Surgery from the University of New South Wales with at least three years relevant standing or other equivalent qualifications.

### **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 interests, seek at an early stage the advice of the Head of



School or his/her delegate 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 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 retain 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, appointment 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 of Community Medicine 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:

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## **Master of Medicine (MMed) by Formal Course Work**

1. The degree of Master of 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 a 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 one year's full-time experience in the practice of medicine.

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 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 six full-time candidate and twelve academic sessions for a part-time candidate. 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 Psychological Medicine (MPM)**

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 Public Health (MPH) *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 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 organisation or institution will have a cosupervisor 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 reexamination.

(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 represent 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 (MPH) 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 Science (MSc)**

1. The degree of 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.

(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 represent 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.

\* 'School' if used here and elsewhere in these conditions to mean any teaching unit authorized to enrol research students and includes a department where that department is not within a school, or schools or departments where the research is being undertaken in more than one school or department; 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.

### Fees

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

## Master of Science (MSc) *without supervision*

1. The degree of Master of Science 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 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 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 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

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
  - (d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or
  - (e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.
- (4) If the performance at the further examination recommended under (3)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to represent 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 Sports Medicine (MSPMed)**

1. The degree of Master of Sports Medicine 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 its equivalent from another university as considered acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), and

(b) normally be registered as a medical practitioner in the country (or state thereof) of residence, but in exceptional cases, enrolment may be granted to applicants who are provisionally registered.

(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 one calendar month before the commencement of the session in which enrolment is to begin.

\* 'School' if used here and elsewhere in these conditions to mean any teaching unit authorized to enrol research students and includes a department where that department is not within a school, or schools or departments where the research is being undertaken in more than one school or department; 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.

(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 as a part-time candidate until the lapse of five academic sessions from the date of enrolment. The maximum period of part-time candidature shall be nine academic sessions. In special cases an extension of time may be granted by the Committee.

### **Examination**

4. (1) Assessment is based on the satisfactory completion of written examinations at the end of each subject and the satisfactory completion of the Practicum based on oral and practical demonstration of clinical skills.

(2) The degree of Master of Sports Medicine will be awarded after satisfactory completion of a program of advanced study which has achieved 24 credit points with satisfactory completion of clinical examination and the achievement of six credit points from the satisfactory completion of a Major Project report based on at least one semester of research or clinical studies in relation to sports medicine.

### **Fees**

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

## **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) 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;

(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 organisation or institution will have a cosupervisor 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.

\* 'School' if used here and elsewhere in these conditions to mean any teaching unit authorized to enrol research students and includes a department where that department is not within a school, or schools or departments where the research is being undertaken in more than one school or department; 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.

- (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 reexamination.
  - (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 represent 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.

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## **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 Community Paediatrics (GradDipCommPaed)**

1. The graduate diploma in Community 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 Graduate Diploma shall:

(a) have been awarded a relevant degree of Bachelor of three 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 professionally engaged in looking after the health of children.

(2) An applicant who submits evidence of such academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree or graduate 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 graduate diploma shall be made on the prescribed form which shall be lodged with the Registrar at least four calendar months before the commencement of the course.

(2) A candidate for the graduate diploma shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of the 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 graduate 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**

4. (1) Assessment is based on satisfactory completion of written examination questions during and at the end of each subject and the satisfactory completion of assignments.

(2) The Graduate Diploma in Community Paediatrics will be awarded after satisfactory completion of a program of 110 credit units.

### **Fees**

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

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## **Graduate Diploma in Drug Development (GradDipDD)**

1. The Graduate Diploma in Drug Development may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

### **Qualifications**

2. A candidate for the Graduate Diploma:

(a) Shall have been awarded a relevant degree of Bachelor of three 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.

(b) In exceptional cases, an applicant who submits evidence of such other academic and/or professional qualifications as may be approved by the Committee and who has had at least two years experience working in the pharmaceutical manufacturing industry in areas relating to scientific and technical aspects of that industry may be permitted to enrol for the Graduate Certificate, and, if the level of proficiency shown in these studies is deemed satisfactory by the Committee, that the candidate may convert his or her candidature to that of the Diploma.

(c) 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. (a) An application to enrol as a candidate for the award shall be made on the prescribed form and lodged with the Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.
- (b) A candidate for the award shall be required to undertake such formal subjects and pass such assessment as prescribed.
- (c) 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.
- (d) The minimum and maximum periods of part-time candidature shall be:
  - (i) for the Diploma: 4 and 8 academic sessions, respectively
- (e) Students not qualified to enrol in the Master's program but who are qualified to enrol for the Diploma, may at the successful completion of the Diploma program and at the discretion of the Committee, convert their candidature to that of Master.
- (f) Articulation: a candidate holding the award of Graduate Diploma in Drug Development from the University of New South Wales who, at a later date, wishes to enrol for the degree of Master of Medical Science in Drug Development may, at the discretion of the Committee, be awarded the degree after the successful completion of 16 additional units of course material.

### **Fees**

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

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## **Graduate Diploma in Geriatric Medicine (GradDipGeriMed)**

1. The Graduate Diploma in Geriatric Medicine may be awarded by the Council to a candidate who has satisfactorily completed an approved program of study.

### **Qualifications**

2. A candidate for the Diploma shall:

- (1) 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
- (2) Have had at least one year of full-time clinical experience in the practice of medicine at the time of enrolment.

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 by the advertised closing date, which shall be at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the diploma shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) The normal duration of the course is 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. In special circumstances a variation of these times may be approved by the Head of School.

### **Fees**

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

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## **Graduate Diploma in Health Professions Education (GradDipHPed)**

1. The Graduate Diploma in Health Professions 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.

## **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 Public Health (GradDipPH)**

1. A Graduate Diploma in Public Health may be awarded by the Council to a candidate who has satisfactorily completed an approved program of study.

### **Qualifications**

2. (1) A candidate for the Graduate Diploma shall:

(2) have been awarded an appropriate degree of Bachelor in a health related discipline 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 at least three years experience in a health or health-related field, or

(3) In exceptional cases, an applicant who submits evidence of such other academic and professional attainment as may be approved by the Committee may be permitted to enrol for the Graduate Diploma;

(4) 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 permitted 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 by the advertised closing date, which shall be at least two calendar months before the commencement of the session in which the enrolment is to begin.

(2) A candidate for the diploma shall be required to undertake the subjects, and pass any assessment, required.

(3) The progress of a candidate shall be reviewed by the end of each session 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. The maximum candidature shall be seven sessions from the date of enrolment.

### **Fees**

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

## **Graduate Diploma in Sports Medicine (GradDipSpMed)**

1. The Graduate Diploma in Sports Medicine 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 its equivalent from another university as considered acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), and

(b) normally be registered as a medical practitioner in the country (or state thereof) of residence, but in exceptional cases, enrolment may be granted to applicants who are provisionally registered.

(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 one calendar month 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 as a part-time candidate until the lapse of four academic sessions from the date of enrolment. The maximum period of part-time candidature shall be eight academic sessions. In special cases an extension of time may be granted by the Committee.

### **Examination**

4. (1) Assessment is based on the satisfactory completion of written examinations at the end of each subject and the satisfactory completion of the Practicum based on oral and practical demonstration of clinical skills.

(2) The Graduate Diploma in Sports Medicine will be awarded after satisfactory completion of a program of advanced study which has achieved 24 credit points with satisfactory completion of clinical examination.

5. Articulation: a candidate holding the Graduate Certificate in Sports Medicine from the University of New South Wales who, after a lapse at least three years, wishes to enrol for the degree of Graduate Diploma or Master of Sports Medicine may, at the discretion of the Course Supervisor in regard to further assessment related to recent developments in the field, be awarded the degree after the successful completion of the additional subjects required for the course.

### **Fees**

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

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## **Graduate Certificate in Drug Development (GradCertDD)**

1. The Graduate Certificate in Drug Development may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

### **Qualifications**

2. A candidate for the Graduate Certificate:

(a) Shall have been awarded a relevant degree of Bachelor of three 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.

(b) In exceptional cases, an applicant who submits evidence of such other academic and/or professional qualifications as may be approved by the Committee and who has had at least two years experience working in the pharmaceutical manufacturing industry in areas relating to scientific and technical aspects of that industry may be permitted to enrol for the Graduate Certificate, and, if the level of proficiency shown in these studies is deemed satisfactory by the Committee, that the candidate may convert his or her candidature to that of the Diploma.

(c) 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. (a) An application to enrol as a candidate for the award shall be made on the prescribed form and lodged with the Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.

(b) A candidate for the award shall be required to undertake such formal subjects and pass such assessment as prescribed.

(c) 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.

(d) The minimum and maximum periods of part-time candidature shall be:

(i) for the Graduate Certificate: 2 and 4 academic sessions.

(e) Articulation: a candidate holding the award of Graduate Certificate in Drug Development from the University of New South Wales who, at a later date, wishes to enrol for the degree of Graduate Diploma in Drug Development may, at the discretion of the Committee, be awarded the degree after the successful completion of additional units of course material.

### Fees

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

## Graduate Certificate in Geriatric Medicine (GradCertGerMed)

1. The Graduate Certificate in Geriatric Medicine may be awarded by the Council to a candidate who has satisfactorily completed an approved program of study.

### Qualifications

2. (1) A candidate for the Certificate 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 of full-time clinical experience in the practice of medicine at the time of enrolment.

In exceptional circumstances 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 Certificate.

(c) 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 Certificate shall be made on the prescribed form which shall be lodged with the Registrar by the advertised closing date, which shall be at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the Certificate 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) The normal duration of the course is one academic session from the date of enrolment in the case of a full-time candidate or two sessions in the case of a part-time candidate. In special circumstances a variation in these times may be approved by the Head of School.

### **Fees**

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

## **Graduate Certificate in Health Services Management (GradCertHSM)**

1. A certificate 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 certificate shall:

(a) 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 Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee).

(b) have had the equivalent of at least three years experience in the health services of a kind 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 certificate.

(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 certificate 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 certificate 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 certificate until the lapse of one academic session from the date of enrolment. The maximum period of candidature shall be four academic sessions from the date of enrolment. 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.

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## Graduate Certificate in Health Professions Education (GradCertHPed)

1. The Graduate Certificate in Health Professions 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 Certificate 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 or 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 Certificate.

(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 Certificate 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 Certificate 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 Certificate until the lapse of one academic session from the date of enrolment in the case of a full-time candidate or two academic sessions in the case of a part-time candidate. The maximum period of candidature shall be two academic sessions from the date of enrolment for a full-time candidate and four academic 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

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## Graduate Certificate in Public Health (GradCertDipPH)

1. A Graduate Certificate in Public Health may be awarded by the Council to a candidate who has satisfactorily completed an approved program of study.

### Qualifications

2. (1) A candidate for the Graduate Certificate shall:

(a) have been awarded an appropriate degree of Bachelor in a health related discipline 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 at least three years experience in a health or health-related field, or

(b) In exceptional cases, an applicant who submits evidence of such other academic and professional attainment as may be approved by the Committee may be permitted to enrol for the Graduate Certificate;

(c) 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 permitted enrolment.

### **Enrolment and Progression**

3. (1) An application to enrol as a candidate for the certificate shall be made on the prescribed form which shall be lodged with the Registrar by the advertised closing date, which shall be at least two calendar months before the commencement of the session in which the enrolment is to begin.

(2) A candidate for the certificate shall be required to undertake the subjects, and pass any assessment, required.

(3) The progress of a candidate shall be reviewed by the end of each session 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 one academic session from the date of enrolment in the case of a candidate for the certificate. The maximum candidature shall be four sessions from the date of enrolment for the certificate.

### **Fees**

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

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## **Graduate Certificate in Sports Medicine (GradDipSpMed)\***

1. The Graduate Certificate in Sports Medicine 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 Certificate 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 to be equivalent from another university as considered by the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), and

(b) normally be registered as a medical practitioner in the country (or state thereof) of residence but in exceptional circumstances enrolment may be granted to applicants who are provisionally registered

(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 Graduate Certificate 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) A candidate for the Graduate Certificate 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 Graduate Certificate as a part-time candidate until the lapse of two academic sessions. The maximum period for a part-time candidate shall be four academic sessions. In special cases an extension of time may be granted by the Committee.

(5) Articulation: a candidate holding the Graduate Certificate of Sports Medicine from the University of New South Wales who, after the lapse of at least three years, wishes to enrol for the degree of Graduate Diploma or Master of Sports Medicine may, at the discretion of the Course Supervisor in regard to further assessment related to recent developments in the field, be awarded the degree after the successful completion of the additional subjects required for the course.

### **Examination**

4. (1) Assessment is based on the satisfactory completion of written examinations at the end of each subject and the satisfactory completion of clinical training in sports medicine.

(2) The Graduate Certificate in Sports Medicine will be awarded after the satisfactory completion of a program of advanced study which has achieved 60 credit points with satisfactory completion of clinical requirements.

### **Fees**

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

*\*Yet to be approved by the University Council*



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# Scholarships

The scholarships listed below are available to students whose courses are listed in this book. Each Faculty Handbook contains in its scholarships section the scholarships available for study in that Faculty. Travel scholarships are shown separately. Applicants should note that the scholarships and their conditions are subject to review and the closing dates for awards may vary from year to year.

Scholarship information is regularly included in the University publication 'Uniken/Focus' and updated on the UNSW Web site <http://www.infonet.unsw.edu.au/academic/schopriz/httoc.htm>.

Students investigating study opportunities overseas should also consult Study Abroad which is published by UNESCO. The British Council (02 9326 2365) may be of assistance for information about study in Britain. The Australian–American Education Foundation (02 6247 9331) or the U.S. Consulate General Educational Advising Centre (02 9373 9230) can provide information about study in America. Information may also be obtained from the embassy or consulate of the country in which the study is proposed and from the proposed overseas institution. Details of overseas awards and exchanges administered by the Department of Employment, Education, Training and Youth Affairs (DEETYA) can be obtained from the Awards and Exchanges Section, DEETYA, PO Box 826, Woden, ACT 2606.

## KEY

- L** Students with Australian Citizenship or Permanent Resident status can apply.
- I** International students can apply.

## Postgraduate scholarships for research or coursework are identified with the following codes:

- R** Available for study by research (normally Masters by Research or PhD).
- C** Available for study by coursework (normally Masters by Coursework or Graduate Diploma).

The scholarship information is normally provided in the following format:

- Amount
- Duration
- Conditions

Unless otherwise stated, application forms are available from the Scholarships and Student Loans Unit, c/- the Student Centre (Lower Ground Floor, Chancellery). Applications normally become available four to six weeks before the closing date.

## Undergraduate Scholarships

Following are details of scholarships available to undergraduate students at UNSW. The scholarships are listed according to the year of study for which the scholarship is available (i.e. scholarships for first year students; scholarships for second or later year students; scholarships for Honours year students) or whether they are available to undertake travel, and then also by Faculty and course (e.g. scholarships in Science and Technology or Engineering). If students from more than one Faculty are able to apply the scholarship is listed in the General Scholarships section.

For further information contact:

**The Scholarships and Student Loans Unit  
The University of New South Wales  
Sydney 2052 Australia**

**Tel (02) 9385 3100/3101/1462**

**Fax (02) 9385 3732**

**Email: [scholarships@unsw.edu.au](mailto:scholarships@unsw.edu.au)**

**Website: <http://www.infonet.unsw.edu.au/academic/schopriz/httoc.htm>**

## Scholarships for students entering the first year of an undergraduate course

### General First Year

#### The Alumni Association Scholarships (I,L)

- Up to \$1,500 pa
- 1 year renewable subject to satisfactory progress

The scholarships are available to students enrolled in any year of a full-time undergraduate course. Candidates must be the children or grandchildren of alumni of UNSW. Applications close early January.

#### The AUSIMM Education Endowment Fund (L)

- \$2,500-\$5,000 pa
- 1 year may be renewable subject to satisfactory progress

The scholarships are open to full-time undergraduate students enrolled in a course leading to the award of a Geoscience, Mining Engineering or Minerals Engineering (Minerals Processing or Extractive Metallurgy) degree related to the interests of the mineral industry. Further information is available from The Australian Institute of Mining and Metallurgy (AUSIMM), PO Box 660, Carlton South VIC 3053, Tel (03) 9662 3166.

#### The Australian Development Scholarships (ADS) (I)

- Tuition fees, medical cover, airfare and a stipend
- Duration of the course

This award is for international students from selected countries only. Information and applications can only be obtained from Australian Diplomatic Posts or Australian Education Centres in the home country. Applications normally close at least 12 months before the year of study.

#### The Australian Vietnam Veterans Trust Education Assistance Scheme (L)

- \$3,500 pa
- Duration of the course subject to satisfactory progress

The scholarship is available to the children of Vietnam veterans who are aged under 25 at the time of application. The award is subject to the same income test as AUSTUDY. Applicants can be undertaking any year of a Bachelors course. Applications and further information are available from the Australian Vietnam War Veterans Trust National Office, PO Box K978, Haymarket NSW 1240, Tel (02) 9281 7077, Email: [vvt@accsoft.com.au](mailto:vvt@accsoft.com.au). Applications close 31 October.

#### The Ben Lexcen Sports Scholarships (I,L)

- \$2,000 pa
- 1 year with possibility of renewal

The scholarships are 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 active members of a UNSW Sports Club. Applications close late January.

#### The Captain Reg Saunders Scholarship (L)

- \$3,000
- Up to 4 years

Applicants must be Aboriginals or Torres Strait Islanders eligible to commence a university degree in the area of psychology, nursing, applied science, social work or education. Further information and applications are available from the Aboriginal Education Program, UNSW, Tel (02) 9385 3805.

### The UNSW Co-Op Program (L)

- \$11,150 pa, and between 9 and 20 months industry training
- Duration of the course subject to satisfactory progress

The scholarships are offered by industry sponsors through the University for some of the disciplines in the Faculties of Science and Technology, Commerce and Economics, and Engineering. Scholars are selected by interview with emphasis placed on achievements in community and extra-curricular activities as well as communication and leadership skills. A minimum UAI of 93.8 is expected. The UNSW Co-Op Program application form is available from school Careers Advisers or the Co-op Program Office on (02) 9385 5116. Applications close September 30 with interviews held at the end of November and beginning of December.

### The Girls Realm Guild Scholarships (L)

- Up to \$1,500 pa
- 1 year with the prospect of renewal subject to satisfactory progress and continued demonstration of need

The scholarships are available to female students under 35 years of age who are enrolling in any year of a full-time undergraduate course. Selection is based on academic merit and financial need. Applications close 25 March.

### The Ian Somerville Scholarships (I,L)

- Up to \$3,000
- 1 year

The scholarships are available to immediate family members (ie. children, parents, brothers, sisters, spouses, de facto partners) of UNSW staff members. Applicants must be full-time students enrolling in any year of an undergraduate course leading to the degree of Bachelor at UNSW. Selection will be based on academic merit, aptitude and commitment to the proposed course. Consideration may be given in cases of hardship or disadvantage. Applications close 31 January.

### The John Niland Scholarships (L)

- \$5,000
- 1 year

The scholarship assists rural students to undertake study at UNSW. Applicants will be students who complete the HSC (or its counterpart matriculation requirement) in the top five percent of their state-wide cohort, having been enrolled at a country high school in Australia. Selection will be based on academic merit, potential to contribute to the wider life of the University and consideration of social and/or economic circumstances which might otherwise hinder successful transition to UNSW. Applications close 30 October.

### The Kensington Colleges Scholarships

Further information concerning the awards below is available from The Kensington Colleges, Tel (02) 9315 0000, Fax (02) 9315 0011, Email: [kenso-colleges@unsw.edu.au](mailto:kenso-colleges@unsw.edu.au), Web: <http://www.kensocoll.unsw.edu.au>.

#### *The Mathews Scholarship*

The scholarship provides \$1,500 credit towards accommodation costs and is awarded to a resident at the commencement of the second year of an undergraduate degree. Candidates will be assessed on their academic performance in the first year of their course.

#### *The Access Scholarship*

The scholarship provides up to half the accommodation fee for a limited number of first year ACCESS scheme students experiencing long term financial hardship. Nominations are forwarded by the UNSW ACCESS office.

### The Malcolm Chaikin Scholarship (L)

- \$15,000 pa
- Renewable for the duration of the course subject to satisfactory progress

The scholarship is available to students entering the first year of a Bachelor of Science or Engineering in the Faculties of Life Sciences, Science and Technology, or Engineering. Selection will take into account academic merit and interview performance. Applications close 31 October.

### The National Health and Medical Research Council (NHMRC) Training Scholarship for Aboriginal Health Research (L,R)

- \$15,888 - \$23,630 pa (depending on qualifications)
- Up to 3 years

Applicants must be undertaking an undergraduate or postgraduate degree which includes, or leads to, research relevant to Aboriginal health. Applications will be assessed in terms of previous qualifications and experience. Consideration will be given to prior knowledge and experience of Aboriginal culture and health. Applications close early August.

### The New College Access Scholarship

The scholarship provides up to half of the accommodation fee for a first year ACCESS scheme student selected by the College. Nominations are forwarded by the UNSW ACCESS office. For further information contact New College, Tel (02) 9381 1999, Fax (02) 9381 1919, Email: [admissions@newcollege.unsw.edu.au](mailto:admissions@newcollege.unsw.edu.au).

### The New South Scholarships (L)

- \$6,000
- 1 year

The scholarships are available to students commencing the first year of undergraduate study at UNSW in any discipline. Scholarships will be available only to those students who achieved a perfect score in the NSW HSC in the year prior to commencing study. No application form is required.

### **The Ngunnagan Club Scholarship (L)**

- Up to \$2,000
- 1 year

The scholarship is available to students enrolled at an Australian country high school who complete the HSC (or its counterpart matriculation requirement) in the top five per cent of their state cohort. Applicants should complete an official application form by 31 October in the year prior to their intended enrolment at UNSW. Final performance in the HSC (or its counterpart matriculation) examination should be reported to the Scholarships and Student Loans Unit once known.

### **Robert Riley Scholarships (L)**

- \$5,000

The Scholarships are awarded to promote the pursuit of justice and human rights for Aboriginal Australians through education. Applicants must be Aboriginals or Torres Strait Islanders up to the age of 25 and proposing to pursue studies in the fields of law, human rights or juvenile justice. Further information and applications are available from the Aboriginal Education Program, UNSW, Tel (02) 9385 3805. Applications close 1 November.

### **The Smith Family Tertiary Scholarship Scheme (I,L)**

- Up to \$2,000 for University fees, books, laboratory/field or practical fees
- 1 year

The scheme offers scholarships to first year undergraduate students from disadvantaged families who demonstrate high academic ability and the personal commitment to succeed in tertiary studies. Applicants must be economically disadvantaged, as assessed by The Smith Family, and have demonstrated consistently high academic results. Applications are available from The Education Support Co-ordinator, The Smith Family, Locked Bag 1000, Camperdown NSW 2050, Tel (02) 9550 4422, fax (02) 9516 4063. Applications close late July.

### **The Vice-Chancellor's Equity Scholarships (L)**

- \$1,500
- 1 year

In 1998, over 40 scholarships were awarded for financially disadvantaged students commencing full-time undergraduate study. Consideration is normally given to academic merit and financial need. The conditions may change each year.

### **The W.S. and L.B. Robinson Scholarship (L)**

- Up to \$6,500 pa
- 1 year renewable for the duration of the course subject to satisfactory progress

Applicants must have completed their schooling in Broken Hill or have parents who reside in Broken Hill. Applicants should be undertaking a course related to the mining industry, for example courses in mining engineering, geology, electrical and mechanical engineering, metallurgical process engineering, chemical engineering or science. A letter of application should be sent to Pasminco Mining, PO Box 460, Broken Hill, NSW 2880. Applications close 30 September.

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## **Faculty First Year**

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### **Faculty of Medicine**

#### **The Arthur and Rita Kwan Scholarship (L)**

- Up to \$1,000
- 1 year

The scholarship is available to students who completed the HSC (or equivalent) at a high school in NSW in the year prior to award. Applicants must be eligible to undertake the MBBS degree in the Faculty of Medicine. Selection will be based on financial need and consideration of social/economic circumstances which might otherwise hinder a successful transition to UNSW. Applications close 31 January. The first Scholarship is intended to be awarded for the academic year commencing 2000.

#### **The Pang Shuk Keung and Pang Ng Yee Tak Scholarship in Medicine (I,L)**

- Up to \$1,500
- 1 year

The scholarship is available to a full-time student entering the first year of an undergraduate degree program in the Faculty of Medicine at UNSW, who has completed the HSC (or equivalent) in the year prior to award. Selection will be based on academic merit and a statement outlining the reasons for undertaking the proposed course of study. Emphasis will be placed on financial need and social/economic circumstances which might otherwise hinder successful transition to UNSW. Applications close 31 March.

## Scholarships for students in their second or later year of study

### General Second Year or Later

#### The AITD-MMI Insurance- Mark Pompei Scholarship (L)

- \$1,000

The Australian Institute of Training and Development and MMI Insurance offer an annual scholarship to a part-time student currently working in the field of Training and Development. Applicants should be completing their first accredited qualification to assist their development in this field. Applications are available from AITD NSW Division Administrator, PO Box 5452, West Chatswood NSW 2057, Tel (02) 9419 4966, Fax (02) 9419 4142, Email [nswdivn@aitd.com.au](mailto:nswdivn@aitd.com.au). Applications close in May.

#### The Alumni Association Scholarships (I,L)

- Up to \$1,500 pa
- 1 year renewable subject to satisfactory progress

The scholarships are available to students enrolled in any year of a full-time undergraduate course. Candidates must be the children or grandchildren of alumni of UNSW. Applications close early January.

#### The Australian Vietnam Veterans Trust Education Assistance Scheme (L)

- \$3,500 pa
- Duration of the course subject to satisfactory progress

The scholarship is available to the children of Vietnam veterans who are aged under 25 at the time of application. The award is subject to the same income test as AUSTUDY. Applicants can be undertaking any year of a Bachelors course. Applications and further information are available from the Australian Vietnam War Veterans Trust National Office, PO Box K978, Haymarket NSW 1240, Tel (02) 9281 7077, Email: [vvt@accsoft.com.au](mailto:vvt@accsoft.com.au). Applications close 31 October.

#### The Ben Lexcen Sports Scholarships (I,L)

- \$2,000 pa
- 1 year with possibility of renewal

The scholarships are 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 active members of a UNSW Sports Club. Applications close late January.

#### The Girls Realm Guild Scholarship (L)

- Up to \$1,500 pa
- 1 year with the prospect of renewal subject to satisfactory progress and continued demonstration of need

The scholarships are available only to female students under 35 years of age who are enrolling in any year of a full-time undergraduate course. Selection is based on academic merit and financial need. Applications close 25 March.

#### The Dried Fruits Research and Development Council (DFRDC) Studentships and Student Awards (I,L)

- Up to \$3,000 for Studentships, up to \$1,000 for Student Awards

The Studentships assist students to undertake research projects in the final year of a Bachelors degree (applications close April 15), or to undertake a research project during the summer vacation (applications close October 15). The Student Awards are provided for excellence in student research projects related to the dried fruit industry. Further information and applications are available from the Executive Officer, Dried Fruits Research and Development Council, Box 1142, Mildura VIC 3502, Tel (050) 221515, Fax (050) 233321.

#### The Esso Australia Ltd Geosciences Scholarship (I,L)

- Up to \$3,000
- 1 year

The scholarship is for a full-time student seeking to undertake study in the final year (Year 4) of a Bachelor of Science (AppGeol) or an equivalent Honours year, majoring in geology or geophysics. The successful applicant is expected to have an interest in petroleum related studies ie sedimentology, biostratigraphy, seismic/magnetic/gravity geophysical studies, basin studies, palynology or palaeontology. Selection is based on academic merit, the benefit the student will gain by being awarded the scholarship and can include consideration of financial need. Applications close 30 November.

#### The Ian Somerville Scholarships (I,L)

- Up to \$3,000
- 1 year

The scholarships are available to immediate family members (ie. children, parents, brothers, sisters, spouses, de facto partners) of UNSW staff members. Applicants must be full-time students enrolling in any year of an undergraduate course leading to the degree of Bachelor

at UNSW. Selection will be based on academic merit, aptitude and commitment to the proposed course. Consideration may be given in cases of hardship or disadvantage. Applications close 31 January.

### **The Julian Small Foundation Annual Research Grant (I,L)**

- Up to \$5,000

Applications are open to postgraduate and undergraduate students undertaking research and involved in the study of law, or industrial relations. Selection will be based on a research proposal which outlines how the research will advance thinking and practice in the area of employment law and industrial relations in Australia. Applications close mid-August.

### **The Kensington Colleges Scholarships**

Further information concerning the awards below is available from The Kensington Colleges, Tel (02) 9315 0000, Fax (02) 9315 0011, Email [kenso-colleges@unsw.edu.au](mailto:kenso-colleges@unsw.edu.au), Web: <http://www.kensocoll.unsw.edu.au>.

#### **The Fell Scholarship**

The scholarship provides \$650 credit for accommodation costs and is awarded to a returning resident in each College. Applicants will be assessed on their academic performance in the second or later year of their course.

#### **Resident Assistant Scheme**

The program provides subsidised accommodation, valued at up to \$1,000, for 22 academically promising residents, and an apprenticeship in the collegiate Residential Academic Staff role. All residents who have successfully completed at least one year of university study are eligible to apply.

### **The National Health and Medical Research Council (NHMRC) Training Scholarship for Aboriginal Health Research (L,R)**

- \$15,888 - \$23,630 pa (depending on qualifications)
- Up to 3 years

Applicants must be undertaking an undergraduate or postgraduate degree which includes, or leads to, research relevant to Aboriginal health. Applications will be assessed in terms of previous qualifications and experience. Consideration will be given to prior knowledge and experience of Aboriginal culture and health. Applications close late July.

### **The Nicholas Catchlove Scholarship in Flying (L)**

- \$10,000
- 1 year

The scholarship will be awarded to provide a final year student with the opportunity to undertake further flying

training to prepare for a career in the aviation industry. Applicants must be proposing to undertake the final year of an appropriate course and hold a Commercial Pilot's Licence. Selection will be based on academic merit, reasons for undertaking the course, financial need, commitment to flying and to the course, demonstrated ability, leadership qualities and interview performance. Applications close in late March.

### **The NSW Ministry for the Arts Scholarships (L,R C)**

- \$5,000 - \$25,000 (depending on the award)

The NSW Government offers a number of scholarships and awards to writers, artists and scholars living in NSW. Further information is available from the New South Wales Ministry for the Arts, GPO Box 5341, Sydney NSW 2000, Tel (02) 9228 3533, Fax (02) 9228 4722.

### **The RGC Scholarship in Economic Geology (L)**

- \$5,000
- 1 year

The scholarship is available to a student entering Year 4 of the Applied Geology course or an Honours year in geology in the Science course and who is proposing to undertake a field project relevant to economic geology. Letters of application and requests for information should be directed to RGC, Gold Fields House, 1 Alfred St, Sydney NSW 2000. Applications close 31 January.

### **The Rural Allied Health Placement Grants (L)**

- Up to \$500

Grants are available to students undertaking rural placements, who are in the final two years of an undergraduate course in dietetics, diagnostic radiography, occupational therapy, pharmacy, physiotherapy, podiatry, social work, speech pathology, psychology (honours) or any year of a postgraduate course in dietetics or psychology (Masters). Applications are available from the NSW Health Rural Health Support Unit. Tel (02) 6640 2302, Fax (02) 6640 2499, Email: [rhsu@nor.com.au](mailto:rhsu@nor.com.au), web: [www.nor.com.au/community/rhsu](http://www.nor.com.au/community/rhsu). Session One applications close 15 May. Session Two applications close in August.

### **The Rural Allied Health Scholarships (L)**

- \$5,750

Scholarships are available to students who are in the final two years of a four year undergraduate course in Aboriginal health, dietetics, diagnostic radiography, occupational therapy, pharmacy, physiotherapy, podiatry, social work, speech pathology, or the final year of psychology (honours) degree or any year of a Masters qualification in dietetics or psychology. Applications are available from the NSW Health Rural Health Support Unit. Tel (02) 6640 2302, Fax (02)

6640 2499, Email: rhsu@nor.com.au, web: www.nor.com.au/community/rhsu. Applications close late September.

### **The Sam Cracknell Memorial Scholarships (I,L)**

- Up to \$1,500
- 1 year

Applicants should have already completed at least 2 years of a degree or diploma course and be enrolled in a full-time course during the year of application. Selection is based on academic merit, participation in sport both directly and administratively and financial need. Applications close 31 March.

### **The Spruson and Ferguson (Patent Attorneys) Scholarship for Innovation (L)**

- At least \$1,000
- 1 year

The scholarship is available to a student who is undertaking the final year of an undergraduate course in any school of the Faculty of Science and Technology or the Faculty of Engineering. Selection will be based on academic merit and the innovative nature of the proposed final year project. Applicants are required to submit an application and a 200 word outline of their proposed research topic. Applications close 7 March.

### **The Telstra Education Fellowships (L)**

- \$7,500
- 1 year

Applicants must be entering the final year of study in the disciplines of computer, electrical or electronic engineering, computer science or human factors. Students may also have the opportunity to undertake up to 12 weeks non-compulsory vacation employment. Further information is available from the Fellowship Applications Officer, Telstra Research Laboratories, PO Box 249, Rosebank MDC, Clayton Victoria 3169. Email c.zaman@trl.telstra.com.au. Applications normally close at the end of July.

### **Telstra Network Technology Group and Multimedia (NTG&M) EEO Scholarships (L)**

- \$10,000, plus summer vacation work and guaranteed employment
- 1 year

The scholarships are open to undergraduate students enrolled in the second last year in electrical/electronic engineering, computers systems engineering, communications or other degree related to telecommunications. Applicants must belong to one of the following EEO groups: women, people from a non-English-speaking background, Aborigines or Islanders, people with a disability. The successful candidates are expected to work for Telstra NTG&M in the summer break and for at least two years after the completion of study. Enquiries to Karen Stewart on (03) 9634 3448, Email kstewart@vcomfin.telstra.com.au. Applications close late June.

### **The W.S. and L.B. Scholarship (L)**

- Up to \$6,500 pa
- 1 year renewable for the duration of the course subject to satisfactory progress

Applicants must have completed their schooling in Broken Hill or have parents who reside in Broken Hill. Applicants should be undertaking a course related to the mining industry, for example courses in mining engineering, geology, electrical and mechanical engineering, metallurgical process engineering, chemical engineering or science. A letter of application should be sent to Pasminco Mining, PO Box 460, Broken Hill, NSW 2880. Applications close 30 September.

## Honours Year Scholarships

### General Honours Year

#### The Alumni Association Scholarships (I,L)

- Up to \$1,500 pa
- 1 year renewable subject to satisfactory progress

The scholarships are available to students enrolled in any year of a full-time undergraduate course. Candidates must be the children or grandchildren of alumni of UNSW. Applications close early January.

#### The Apex Foundation for Research into Intellectual Disability Studentships (I,L)

- \$1,000

The studentships are available to students preparing a thesis related to intellectual disability. Applications should be in the form of a letter which includes a curriculum-vitae and thesis plan and must be supported by a letter from the Head of School/Department. Applications should be sent to the Honorary Secretary, Apex Foundation Studentships, PO Box 311, Mt Evelyn Vic 3796. Applications close 31 May.

#### The Australian and New Zealand Council for the Care of Animals in Research and Teaching (ANZCCART) Student Award (I,L)

- \$1,000 for attendance at the annual conference

Applicants can be Honours students from any discipline. The award provides assistance for a student to attend the annual conference. Applications are available from ANZCCART, PO Box 19 Glen Osmond, SA, 5064, Tel (08) 303 7325. Applications close in July.

#### The Australian Vietnam Veterans Trust Education Assistance Scheme (L)

- \$3,500 pa
- Duration of the course

The scholarship is available to the children of Vietnam veterans who are aged under 25 at the time of application. The award is subject to the same income test as AUSTUDY. Applicants can be undertaking any year of a Bachelors course. Applications and further information are available from the Australian Vietnam War Veterans Trust National Office, PO Box K978, Haymarket NSW 1240, Tel (02) 9281 7077, Email vvt@accsoft.com.au. Applications close 31 October.

#### The Ben Lexcen Sports Scholarships (I,L)

- \$2,000 pa
- 1 year with the possibility of renewal

The scholarships are 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 active members of a UNSW Sports Club. Applications close late January.

#### The Esso Australia Ltd Geosciences Scholarship (I, L)

- Up to \$3,000
- 1 year

The scholarship is for a full-time student seeking to undertake study in the final year (Stage 4) of a Bachelor of Science degree in Applied Geology or an equivalent Honours year, majoring in geology or geophysics. The successful applicant is expected to have an interest in petroleum related studies ie sedimentology, biostratigraphy, seismic/magnetic/gravity geophysical studies, basin studies, palynology or palaeontology. Selection is based on academic merit, the benefit the student will gain by being awarded the scholarship and can include consideration of financial need. Applications close 30 November.

#### The Girls Realm Guild Scholarships (L)

- Up to \$1,500 pa
- 1 year with the prospect of renewal subject to satisfactory progress and continued demonstration of need

The scholarships are available only to female students under 35 years of age who are enrolling in any year of a full-time undergraduate course. Selection is based on academic merit and financial need. Applications close 25 March.

#### The Grains Research and Development Corporation (GRDC) Undergraduate Honours Scholarship (I,L)

- \$6,000 (ie \$5,000 to the student and \$1,000 to the host School/Department).
- 1 year

Applicants must be undertaking a full-time Honours program. Study in an area of significance to the grains industry will be viewed favourably. A letter of application, including a curriculum-vitae, academic record, letter of support from the Head of School/Department and two referees' supporting statements, should be sent to GRDC Undergraduate Honours Scholarship, PO Box E6, Queen Victoria Terrace, Canberra ACT 2600, Tel (02) 62725528. Applications close early November.



### **The Great Barrier Reef Marine Park Authority Research Support (I,L)**

- \$1,500

Applicants must be undertaking a full-time Honours year or PhD research project that could contribute to the planning and managing work undertaken by the Great Barrier Reef Marine Park Authority. Applications and further information may be obtained from the Executive Officer, Great Barrier Reef Marine Park Authority, PO Box 1379, Townsville QLD 4810, Tel (077) 818811. Applications close mid-December.

### **The Ian Somerville Scholarships (I,L)**

- Up to \$3,000
- 1 year

The scholarships are available to immediate family members (ie. children, parents, brothers or sisters) of UNSW staff members or their married or de facto partners. Applicants must be full-time students enrolling in any year of an undergraduate course leading to the degree of Bachelor at UNSW. Selection will be based on academic merit, aptitude and commitment to the proposed course. Consideration may be given in cases of hardship or disadvantage. Applications close 31 January.

### **The National Health and Medical Research Council (NHMRC) Training Scholarship for Aboriginal Health Research (L,R)**

- \$15,888 - \$23,630 pa (depending on qualifications)
- Up to 3 years

Applicants must be undertaking an undergraduate or postgraduate degree which includes, or leads to, research relevant to Aboriginal health. Applications will be assessed in terms of previous qualifications and experience. Consideration will be given to prior knowledge and experience of Aboriginal culture and health. Applications close late July.

### **The NSW Ministry for the Arts Scholarships (L,R,C)**

- \$5,000 - \$25,000 (depending on the award)

The NSW Government offers a number of scholarships and awards to writers, artists and scholars living in NSW. Further information is available from the New South Wales Ministry for the Arts, GPO Box 5341, Sydney NSW 2000, Tel (02) 9228 3533, Fax (02) 9228 4722.

### **The RGC Scholarship in Economic Geology (L)**

- \$5,000
- 1 year

The scholarship is available to a student entering Stage 4 of the Applied Geology course or an Honours year in

geology in the Science course and who is proposing to undertake a field project relevant to economic geology. Letters of application and requests for information should be directed to RGC, Gold Fields House, 1 Alfred St, Sydney NSW 2000. Applications close 31 January.

### **The River Basin Management Society Ernest Jackson Memorial Research Grants (I,L)**

- Up to \$2,000

The scholarship assists PhD and Masters students undertaking research in the field of river basin management. Fourth year Honours students are encouraged to apply. Further information is available from RBMS, PO Box 113, Forest Hill Vic 3131, Tel (03) 9816 6896. Applications close in April.

### **The RSPCA Alan White Scholarship (I,L)**

- \$2,500

Applicants should be undertaking original research to improve the understanding and welfare of animals. A letter of application should be sent to the Executive Officer, RSPCA Australia, PO Box E369, Queen Victoria Terrace, Canberra ACT 2600, Tel (02) 62311437. Applications close 31 March.

### **The Rural Allied Health Placement Grants (L)**

- Up to \$500

Grants are available to students undertaking rural placements, who are in the final two years of an undergraduate course in dietetics, diagnostic radiography, occupational therapy, pharmacy, physiotherapy, podiatry, social work, speech pathology, psychology (honours) or any year of a postgraduate course in dietetics or psychology (Masters). Applications are available from the NSW Health Rural Health Support Unit. Tel (02) 6640 2302, Fax (02) 6640 2499, Email: rhsu@nor.com.au, web: www.nor.com.au/community/rhsu. Session One applications close 15 May. Session Two applications close in August.

### **The Rural Allied Health Scholarships (L)**

- \$5,750

Scholarships are available to students who are in the final two years of a four year undergraduate course in Aboriginal Health, dietetics, diagnostic radiography, occupational therapy, pharmacy, physiotherapy, podiatry, social work, speech pathology, or the final year of psychology (honours) degree or any year of a Masters qualification in dietetics or psychology. Applications are available from the NSW Health Rural Health Support Unit. Tel (02) 6640 2302, Fax (02) 6640 2499, Email: rhsu@nor.com.au, web: www.nor.com.au/community/rhsu. Applications close late September.

**The Sam Cracknell Memorial Scholarship (I,L)**

- Up to \$1,500
- 1 year

Applicants should be full-time students who have already completed at least 2 years of a degree or diploma course. Selection is based on academic merit, participation in sport both directly and administratively, and financial need. Applications close 31 March.

**The University Honours Year Scholarships (I,L)**

- \$1,000
- 1 year

A number of scholarships will be awarded on the basis of academic merit for students entering an 'add-on' honours year, ie the honours year in a degree course which is normally a pass degree but which has the option of a further year of study at Honours level. Applications close 30 November.

**The W.S. and L.B. Robinson Scholarship (L)**

- Up to \$6,500 pa
- 1 year renewable for the duration of the course subject to satisfactory progress

Applicants must have completed their schooling in Broken Hill or have parents who reside in Broken Hill. Applicants should be undertaking a course related to the mining industry, for example courses in mining engineering, geology, electrical and mechanical engineering, metallurgical process engineering, chemical engineering

or science. A letter of application should be sent to Pasminco Mining, PO Box 460, Broken Hill, NSW 2880. Applications close 30 September.

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**Faculty Honours Year**


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**Faculty of Medicine**


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**The Harvey Carey Memorial Trust Scholarship (I,L)**

- Up to \$2,200
- 1 year

Applicants must be enrolled in the BSc(Med) Honours course and undertaking research in the area of reproductive physiology. Further information may be obtained from the Faculty Administration Office, Tel (02) 9385 2457.

**The Hazel Morris Scholarship in Medicine (L)**

- Up to \$1,000
- 1 year

Applicants must be undergraduate students intending to undertake the BSc(Med) Honours year in the Faculty of Medicine at UNSW. Selection will be based on academic merit and consideration of financial need. Applications close 30 November.

## Travel Scholarships

### General Travel

#### The Arthur Anderson Study Abroad Scholarship (L)

- Up to \$2,500

The scholarship provides financial assistance to undergraduate students to undertake a period of study/research in the Arthur Anderson offices in Singapore. Applicants must be full-time students undertaking study in law, commerce, or economics. Applicants must normally be intending to undertake the final year of study and to complete the travel prior to completion of the final year. Applications are also open to students undertaking an official exchange program with a university in Asia. Applications normally close 31 July in the year prior to the final year of study.

#### The Association of International Education Japan (AIEJ) Short-Term Student Exchange Promotion Program (Inbound) Peace and Friendship Scholarships (I,L)

- 50,000 yen (settling-in allowance), 100,000 yen per month, plus airfare
- Ten months to one year

Applicants must be accepted by a Japanese University under a student exchange program agreement with UNSW. Students must initially apply directly to a Japanese University through the International Student Centre at UNSW. The Japanese host university will recommend candidates to AIEJ and students must apply as directed by the host university. Applications close in February, May and September each year.

#### The Association of International Education Japan (AIEJ) Short-Term Student Exchange Promotion Program (Inbound) Scholarships (I,L)

- 50,000 yen (settling-in allowance), 80,000 yen per month, plus airfare
- Six months to one year

Applicants must be accepted by a Japanese University under a student exchange program agreement with UNSW. Students must initially apply directly to a Japanese University through the International Student Centre at UNSW. The Japanese host university will recommend candidates to AIEJ and students must apply as directed by the host university. Applications close in February, May and September each year.

#### The AT&T Leadership Award (I,L,R,C)

- US\$5,000

The award is open to students who will be commencing full-time undergraduate or postgraduate study in the United States between January and September in the year of application. The scholarship is open to students from the following Asia/Pacific countries: Australia, China, Hong Kong, India, Indonesia, Japan, Republic of Korea, Malaysia, Philippines, Singapore, Taiwan and Thailand. Information and applications are available from the U.S. Consulate General, USIS, Level 59 MLC Centre, 19-20 Martin Place, Sydney NSW 2000, Tel (02) 9662 3016. Applications close 15 September.

#### The Australia-Korea Foundation/National Korean Studies Centre Exchange Scholarships (L)

- Up to \$2,500

The scholarships provide financial assistance to undergraduate students who have been accepted as exchange students by a Korean University. Information and applications are available from the Programs Co-ordinator, National Korean Studies Centre, PO Box 218, Hawthorn Vic 3122, Email nksc@swin.edu.au. Applications close early January.

#### The Australia-Korea Foundation Undergraduate Bursaries (L)

- \$1,000
- 1 year

Bursaries are available for students commencing the first year of an undergraduate course intending to study the Korean language. Information and applications are available from the Programs Co-ordinator, National Korean Studies Centre, PO Box 218, Hawthorn Vic 3122, Email nksc@swin.edu.au. Applications close in December.

#### Churchill Fellowships (L)

- Tuition, travel and living allowances

Churchill Fellowships provide financial support for Australian Citizens to undertake study, training or projects overseas. Fellowships will not normally be awarded for higher academic or formal qualifications. Applicants must be over 18 years of age. Further information and applications are available from the Chief Executive Officer, The Winston Churchill Memorial Trust, 218 Northbourne Ave, Braddon ACT 2612, Tel (02) 6247 8333. Applications close late February.

## **DAAD - The German Academic Exchange Service Scholarships (L)**

Application forms for the following scholarships are available from the Consulate General of the Federal Republic of Germany, PO Box 204, Woollahra NSW 2025.

### **One-Semester German Studies Scholarships**

- DM1,000 a month living allowance, travel assistance of DM2,500 and the health insurance contribution
- One semester

Applicants must be in their third year of German Studies. Applications close 1 July.

### **Deutschlandkundlicher Winterkurs**

- DM3,500 to assist with travel and living expenses and course fees

Undergraduate and postgraduate students from all fields with at least two years University level German (with a better than B average) may apply for this scholarship. The students should be aged from 19 to 32 and proposing to undertake the 8 week German studies course (in German) at the University of Freiburg. The course provides language instruction and concentrates on historical and cultural aspects of contemporary Germany for students with some knowledge of German and a background in German Studies. Applications close 1 August.

## **Greek Government Scholarships (L)**

- Tuition fees, monthly subsidy plus other allowances

Scholarships are available for undergraduate and postgraduate study in Greece. Applicants must be Australian citizens. Further information is available from the Embassy of Greece, 9 Turrana St, Yarralumla ACT 2600, Tel (02) 6273 3011. Applications normally close late March.

## **The Harvard Travel Scholarships (L)**

- \$15,000 contribution towards fees, travel and living expenses
- One-off payment

The scholarship will be awarded by the Vice-Chancellor on the basis of recommendations from the Deans of the Faculties. Candidates must have completed at least 2 years full-time (or the part-time equivalent) of an undergraduate course at the UNSW and have an impressive academic record. Award of the scholarship is subject to the recipient gaining entry to the Harvard-Radcliffe Visiting Undergraduate Program. Applications close mid-November for travel in the following year.

## **The International Exchange Travel Scholarships (L)**

- Up to \$1,500
- 1 year

The scholarships were established to encourage UNSW students to participate in the University's formal international exchange programs. Students must be undergraduates embarking on a period of study overseas which will count toward their UNSW degree. Awards will be granted on the basis of academic merit. Further information is available from the International Student Centre, Tel (02) 9385 5333.

## **Italian Government Scholarships (L)**

- 1 million Italian lira per month
- 2-24 months

Scholarships are open to Australian citizens to undertake research and language studies in Italy. Applicants must be aged under 35 years. Further information is available from the Italian Embassy, 12 Grey St, Deakin ACT 2600, Tel (02) 6273 3333, Fax (02) 6273 4223. Applications close early March.

## **Japan Airlines Scholarships (L)**

- Air travel, insurance, tuition, accommodation, textbooks and a daily allowance

The Scholarships are available for undergraduate students to participate in a summer session of Japanese language and cross-cultural studies, home stays in Tokyo and participation at a symposium featuring regional experts. A knowledge of Japanese is not necessary. Further information and applications are available from Level 14, 201 Sussex Street, Sydney NSW 2000, Tel (02) 9272 1151. Applications normally close mid-April.

## **The Japanese Government (Monbusho) Scholarships (L)**

Scholarships are available to Australian Citizens for study in Japan for postgraduate research or five years of undergraduate study. Applicants must be willing to study the Japanese language and receive instruction in Japanese. Further information and applications are available from Monbusho Scholarships, Embassy of Japan, 112 Empire Circuit, Yarralumla ACT 2600, Tel (02) 6272 7268, Fax (02) 6273 1848. Applications close early July.

## **Learn Arabic in Cairo Scholarship (I,L)**

- Course fees, AUD\$70 per month living allowance
- 8 months

Scholarships are available to undertake the Arabic as a Foreign Language course in Cairo. Applications are available from the Embassy of the Republic of Egypt, 1 Darwin Avenue, Yarralumla ACT 2600, Tel (02) 6273 4437, Fax (02) 6273 4279. Applications close 1 July.

### **The Malcolm Chaikin Overseas Exchange Scholarship (L)**

- \$4,000
- 1 year

A scholarship is available for a third or later year student in a Science or Engineering degree program in the Faculty of Life Sciences, Science and Technology or Engineering. Applicants must have applied for the Malcolm Chaikin Scholarship for 1998 or later, and be undertaking an official overseas exchange program. It is expected that the first scholarship will be awarded for travel in 2000. Applications close 30 September.

### **The Mitsui Education Foundation Scholarship (L)**

A three week scholarship to Japan is available to a young Australian national to help promote goodwill between the two countries. Candidates should be full-time undergraduate students in their first degree course who have not previously been to Japan. The successful student will travel to Japan during November and December. Application forms close mid-July.

### **The NSW Travelling Art Scholarship (L)**

- \$25,000

The scholarship is available to an emerging visual artist to undertake a course of study or training overseas for one or two years. Guidelines and applications are available from the NSW Ministry for the Arts, GPO Box 5341, Sydney 2001, Tel (02) 9228 5533. Applications normally close in July.

### **Queen's Trust Grants (L)**

- Up to \$15,000

The Queen's Trust provides grants to Australian Citizens aged 18-28 years, for the pursuit of excellence in their chosen fields. Projects are supported for the advancement of Australian youth, development of community leadership and/or other skills which will be of benefit to Australia. Information and applications may be obtained from the Queen's Trust, Tel 1800 033 625. Applications close late April.

### **The R.C. Sutton/ Jardine Matheson Scholarship (L)**

- Up to \$1,000

The scholarship is to provide financial assistance to undergraduate students to undertake a period of study/research in the R.C. Sutton/ Jardine Matheson offices in Asia. Applicants must be full-time students undertaking study in law, commerce, or economics. Applicants must normally be intending to undertake their final year of study and to complete the travel prior to completion of the final year. Applications are also open to students undertaking an official exchange program with a university in Asia. Applications normally close 31 July in the year prior to the final year of study.

### **The Rotary Foundation Ambassadorial Scholarships (I,L)**

The Rotary Foundation offers scholarships to study or train in another country where Rotary clubs are located. Applicants must have completed at least two years of a university or college course, or have completed high school and have been employed for at least two years. Applicants must also be Citizens of a country in which there is a Rotary club. Information regarding scholarship availability, closing dates and applications should be obtained from the applicant's local Rotary club.

### **The Russian Scholarships (L)**

- Payment of an allowance and medical cover

Scholarships are available to Australian citizens to undertake undergraduate or postgraduate study in journalism, law, economics, international relations or medicine in Russia. Applications normally close in May.

### **The Ship for World Youth Program (L)**

- Economy airfare, accommodation, local trips and meals
- Awarded every second year

The objective of this program is to promote understanding and mutual friendship between the youth of Japan and other parts of the world and to foster the spirit of international cooperation. The successful applicants will visit Japan to participate in the program for the period January to March. Students should be aged from 20 to 29, able to participate in the whole program, be in good physical and mental condition, able to speak English and Japanese, have an interest in and an understanding of Japan, and be engaged in youth activities. The next round of scholarships will be available in 2001. Applications close early July 2000.

### **The Sir Charles Mackerras / Australia-Britain Society Music Scholarship (L)**

- £8,000 sterling

The scholarship is open to outstanding young conductors, composers and répétiteurs, aged between 21 and 30 who are likely to be influential leaders in the field of music, to undertake study in the United Kingdom or the Czech republic for at least six months. Applicants must be Australian Citizens or Permanent Residents. Application forms are available from the British Council, PO Box 88, Edgecliff NSW 2027, Tel (02) 9326 2022, Fax (02) 9327 4868, Email bcsydney@sprint.com. Applications close early November.

### **The STA Travel Grant (I,L)**

- Up to \$3,000

Applicants must be undertaking study leading to a degree or diploma of the University and be members of the University Union. The grant is awarded on the basis of significant contribution to the community life of the

University involving a leadership role in student affairs and the University Union and the relevance and merit of the proposed travel to the student's academic program or University Union activities. Applications close mid-April.

### **The Swedish Institute Guest Scholarships (I, L)**

- SEK 7,100 per month living allowance
- 9 months (1 academic year)

The scholarships are open to students and researchers who wish to travel to Sweden for study or research which cannot equally well be pursued in countries other than Sweden. Applicants must establish contact with a Swedish University willing to accept the applicant for the proposed studies. Initial requests for application forms must be made in writing, and should include the applicant's name and address, nationality, educational background, work experience, knowledge of any languages, statement of the purpose of the study or research in Sweden, and a copy of a letter of invitation from a Swedish University Department. Applications are available from the Swedish Institute, Department for Exchanges in Education and Research, PO Box 7434, SE-103 91, Stockholm, Sweden. Email [grantinfo@si.se](mailto:grantinfo@si.se). Homepage: <http://www.si.se>. Requests for application forms must reach the Swedish Institute before 1 December.

### **Swiss Government Scholarships (L)**

- Tuition fees, living allowance, medical insurance and assistance with airfares
- 1 academic year

One scholarship is available for art/music and two for other disciplines, to undertake postgraduate study or attend an art school/conservatory in Switzerland. Applicants will be required to pass a language test in German or French. Applicants must be aged under 35. Applications close early October.

### **The Turkish Government Language & Culture and Higher Education Scholarships (I,L)**

Scholarships are available to high school graduates to undertake study at a Turkish University. Students may be required to undertake a one year Turkish language course before commencement of the degree. The scholarships pay a monthly allowance for the duration of the course. Scholarships are also available to university graduates who would like to attend Turkish Language and Culture Summer Courses conducted by the Turkish Studies Centre. Further information is available from the Embassy of the Republic of Turkey, 60 Mugga Way, Red Hill ACT 2603. Applications close 30 May for Language and Culture Scholarships, and 15 July for Higher Education Scholarships.

### **Yokoyama Scholarship Awards (L)**

Assistance may be available for undergraduate and postgraduate study at a Japanese University.

Information is available from Mr Masao Iwashita, Secretary-General, Yokoyama Scholarship Foundation, 6F Shiozaki Building, 2-7-1 Hirakawacho, Chiyoda-Ku, Tokyo 102 Japan, Tel (813) 3238 2913, Fax (813) 5275 1677.

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## **Faculty Travel**

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### **Faculty of Medicine**

#### **John Hirshman International Health Scholarship (I,L)**

- Up to \$1,000

The scholarship provides assistance to a final year student undertaking MFAC 6001 Elective Term, to travel to a developing country for international health experience. Application forms and further information are available from the School of Community Medicine, Tel (02) 9385 2520.

## Vacation Scholarships

Some Schools may offer scholarships for the long vacation period from December to February each year. Students should contact the relevant School office for information.

### General Vacation

#### The Australian Kidney Foundation Summer Vacation Scholarships (I,L)

- Up to \$900
- 6 to 8 weeks

The scholarships are open to undergraduate students who have completed at least one year of full-time study in Medicine or a course related to Biological Science. The proposed research project must be related to the kidney and the urinary tract, and carried out at a university department during the summer vacation period. Applications are available from the Medical Director's Office, Australian Kidney Foundation, GPO Box 9993, Adelaide SA 5001, Tel (08) 8267 4555, Fax (08) 8267 4450, Email: ttaylor@terra.net.au. Applications close 15 September.

#### ANU Summer Research Scholarships (I,L)

- \$130 per week, plus full board and travel
- 8-12 weeks

Scholarships are offered to undergraduate students for short research projects in Physics, Chemistry, Astronomy, Biological Sciences, Computer Sciences, Engineering, Medical Sciences, Earth Sciences, Pacific and Asian Studies, Social Sciences and Environmental Sciences, at the Institute of Advanced Studies, ANU. Further information and applications are available from Anna Weidemann, Summer Research Scholarship Program, The Australian National University, Canberra ACT 0200, Tel (02) 6249 4138, Fax (02) 6249 4891, Email: School.office.rsbs@anu.edu.au. Applications close late August.

#### Cooperative Research Centre for Food Industry Innovation Vacation Scholarships (I,L)

- Up to \$2000
- 8 to 12 weeks between November and March

The scholarships are open to final year undergraduate students enrolled in courses in one or more of the following disciplines: biochemistry, biotechnology, bioprocess engineering, chemistry, food science, food technology, immunology, microbiology, or molecular biology. Research

projects must be related to one of the research programs of the CRC. Application Kits are available from September, and further information is available from Ms M Romeo, Education Officer, CRC for Food Industry Innovation, c/- Department of Biotechnology, UNSW, Sydney NSW 2052, Tel (02) 9385 1298, Fax (02) 9385 1015, Email m.romeo@unsw.edu.au. Applications close early October.

#### The CSIRO Division of Marine Research Vacation Scholarships (I,L)

- Up to \$450 per week plus travel expenses
- 8 weeks between December and February

Applicants must be full-time undergraduate students who have completed not less than three years of their course. Research projects will be undertaken with the CSIRO Division of Marine Research at either Hobart, Cleveland or Marmion. Applications close early September.

#### The CSIRO Vacation Scholarships (I,L)

- \$420 per week
- 8 to 12 weeks between December and February

The scholarships are open to postgraduate and undergraduate students who have completed no less than three years of a full-time course in Physics, Mathematics, Computer Science, Electrical Engineering, or a closely allied subject. Research projects are carried out under the individual supervision of a research engineer or scientist. Applications are available on the web at [http://www.atnf.csiro.au/educate/summer\\_vacation.html](http://www.atnf.csiro.au/educate/summer_vacation.html). Applications close early August.

#### The Dried Fruits Research and Development Council (DFRDC) Studentships (I,L)

- Up to \$3,000 for Studentships, up to \$1,000 for Student Awards

The Studentships assist students to undertake research projects during the summer vacation period. Further information and applications are available from the Executive Officer, Dried Fruits Research and Development Council, Box 1142, Mildura Vic 3502, Tel (050) 221515, Fax (050) 233321. Applications close 15 October.

#### The Heart Foundation Vacation Scholarships

Scholarships are available during the long vacation period for research projects related to cardiovascular function and disease. Applicants should normally have completed at least two years of an appropriate degree course in the biological sciences. Preference will be given to applicants who have had little or no laboratory experience. Applications close early September.

### **Medical School Vacation Scholarship Scheme - John Flynn Scholarships**

- \$2,500 pa to cover travel, accommodation, mentor's honorarium, host practice costs, student stipend
- Two weeks per year for up to four years

Scholarships are available to undergraduate medical students to take up vacation placements in rural and remote communities, country towns or regional centres. Placements may be with a general practitioner, rural hospital, rural/remote Aboriginal Medical Service, or a combination of these. Further information may be obtained by telephoning 1800 801 454.

### **The National Multiple Sclerosis Society of Australia Summer Vacation Scholarships (L)**

- \$200 per week
- 6 to 8 weeks between November and March

The scholarships are open to undergraduate students completing three or four years of a full-time course leading to an honours degree in medicine, science, or the biological or health sciences. Research projects must be relevant to multiple sclerosis and carried out at a university department during the summer vacation period. Applications close mid-August.

### **The Novo Nordisk Student Research Scholarship (I,L)**

- \$1,000 to \$1,500
- 6 to 9 weeks over the vacation period

The scholarship is available for diabetes-related research at the Department of Endocrinology, Prince of Wales Hospital and is open to students enrolled at any tertiary institution in Australia. Preference will, however, be given to students enrolled in an undergraduate degree in Science or Medicine at UNSW. Selection will be based on interest in research in diabetes mellitus and academic performance. Further information is available from Associate Professor Bernie Tuch, Prince of Wales Hospital, Tel (02) 9382 4814 or e-mail [b.tuch@unsw.edu.au](mailto:b.tuch@unsw.edu.au). Applications close 31 October.



## Postgraduate Scholarships

Following are details of scholarships available to postgraduate students at UNSW. The scholarships are listed by Faculty and course (e.g. scholarships in Science and Technology or Engineering) or whether they are available to undertake travel. If students from more than one Faculty are able to apply the scholarship is listed in the General Scholarships section.

For further information contact:

**The Scholarships and Student Loans Unit  
The University of New South Wales  
Sydney 2052 Australia**

**Tel (02) 9385 3100/3101/1462**

**Fax (02) 9385 3732**

**Email: [scholarships@unsw.edu.au](mailto:scholarships@unsw.edu.au)**

**Website: <http://www.infonet.unsw.edu.au/academic/schopriz/httoc.htm>**

## General

### Main programs of assistance for postgraduate study

#### The Australian Postgraduate Awards (APA) (L,R)

- \$15,888 pa (1998 rate). Other allowances may also be paid.
- Up to 2 years for a Masters by Research, 3 years for a PhD degree. PhD students may apply for up to 6 months extension in certain circumstances

Applicants must have graduated, or be proposing to graduate in the current academic year, with Honours 1 or equivalent. Students with Permanent Resident status should normally have lived in Australia continuously for 12 months. Applications close 31 October.

#### The Australian Development Scholarships (ADS) (I)

- Tuition fees, medical cover, airfare and a stipend.
- Duration of the course

This award is for international students from selected countries only. Information and applications can only be obtained from Australian Diplomatic Posts or Australian Education Centres in the home country. Applications normally close at least 12 months before the year of study.

#### The Overseas Postgraduate Research Scholarships (OPRS) (I,R)

- Tuition fees and medical cover only
- 2 years for a Masters by Research, 3 years for a PhD degree

Eligibility is confined to postgraduate research students who are citizens of countries other than Australia or New Zealand. Applications close 30 September.

### Other General

#### Aboriginal and Torres Strait Islander Researchers Development Program (L,R)

- At least \$3,000
- Up to 3 years

The Scholarships are awarded to support research projects by Aboriginal and Torres Strait Islander researchers in the biological, mathematical, physical, chemical, engineering, earth and applied sciences and the humanities and social sciences, which are likely to lead to a significant conceptual advance in understanding of a subject or lead to the solution of an important practical problem. Further information and applications are available from the Research Office, UNSW, Tel (02) 9385 1074 or the Research Office website: <http://www.ro.unsw.edu.au>. Applications close mid-June.

#### The Anthony Rothe Scholarship (I,L,R)

- \$28,000 pa plus allowances
- Up to 3 years

Applications are open to postgraduate students proposing to undertake a PhD in a field related to the causes, prevention, treatment or cure of leukaemia and allied blood disorders. Information and applications are available from The Secretary, Anthony Rothe Memorial Trust, c/- Brigden & Partners, GPO Box 2564, Sydney NSW 2001. Applications close late August.

#### The Apex Foundation for Research into Intellectual Disability Research Grants (I,L,R)

Grants may be awarded for new or existing research projects in any discipline concerned with the causes, diagnosis, prevention or treatment of intellectual disability and allied conditions. Applications can be obtained from

the Hon. Secretary, Apex Foundation for Research into Intellectual Disability Limited, PO Box 311, Mount Evelyn VIC 3796. Applications close late July.

### **The Arthritis Foundation of Australia Research & Professional Education Awards (I,L,R)**

- \$5,000 - \$32,000 pa
- 1 to 3 years

Scholarships, fellowships and grants are available to support research projects into arthritis, osteoporosis and other musculoskeletal disorders. Applicants must be enrolled in studies leading to a Masters by Research or PhD. Further information and applications are available from The Arthritis Foundation of Australia, GPO Box 121, Sydney NSW 2001, Tel (02) 9552 6085, Fax (02) 9552 6078. Applications close early June.

### **The Asthma Foundation of New South Wales Research Scholarships (I,L,R)**

- To be determined
- 1 to 3 years

The scholarships are available for research into asthma including the basic medical services or clinical and psychological investigations. Further information is available from The Asthma Foundation of NSW, Unit 1 "Garden Mews", 82-86 Pacific Highway, St Leonards NSW 2065. Applications close in early August.

### **The Australian Brewers Foundation Alcohol Related Medical Research Postgraduate Scholarships (I,L,R)**

- Similar to the NHMRC (see NHMRC entry)
- 1 year

Similar to the NHMRC. The scholarships are available to support research into the medical, social and public health aspects of moderate, hazardous or harmful alcohol consumption. Information and applications are available from ABF-Medical Research Advisory Committee, Tel (02) 9552 6688, Fax (02) 9552 1369. Applications close mid-September.

### **The Australian Coral Reef Society (ACRS) Inc Student Grants (I,L,R,C)**

- \$1,000 (plus \$1,500 Walker prize for the best proposal)

The grant is open to students who are enrolled at an Australian University in a PhD or MSc involving research on coral reefs. Recipients must be a member of, or willing to join the ACRS. Applications normally close late November.

### **Australian Food Industry Science Centre (AFISC) Scholarships (I,L,R)**

- \$25,000 pa plus allowances
- Up to 2 years for a Masters by Research, 3 years for a PhD

It is expected that applicants will be of Honours 1 or high 2A standard or equivalent. Graduates from non-food technology disciplines, such as engineering, mathematics and physics, are also encouraged to apply. Further information and applications are available from AFISC, Private Bag 16, Sneydes Road, Werribee VIC 3030, Tel(03) 9742 0111. Applications close early November.

### **The Australian Federation of University Women (I,L,R,C)**

Each year the Federation offers to its members a number of awards for study in Australia and overseas. Details of awards are included in a booklet available from the Australian Federation of University Women Inc, 215 Clarence Street, Sydney NSW 2000, Tel (02) 9299 9888.

### **The Australian Institute of Nuclear Science and Engineering (AINSE) Postgraduate Research Awards (I,L,R)**

- \$7,500 supplement to an APA or equivalent scholarship and \$5,500 pa for facility costs plus allowances
- Up to 3 years

The Institute offers awards for postgraduate students whose research projects are associated with nuclear science or its applications. Applicants must be eligible for an APA or equivalent scholarship after having completed a Bachelor of Engineering or Bachelor of Science with Honours. At least one month per year must be spent at the Institute at Lucas Heights, NSW. Applications close early December.

### **The Australian Kidney Foundation Grants and Scholarships (I,L,R)**

The AKF supports research into the causes, prevention and treatment of disorders of the kidneys and urinary tract. Programs include Medical Research Seeding Grants, Medical Research Equipment Grants, Biomedical Research Scholarships and Summer Vacation Scholarships. Applications are available from the Medical Director's Office, Australian Kidney Foundation, GPO Box 9993, Adelaide SA 5001, Tel (08) 8267 4555, Fax (08) 8267 4450, Email: ttaylor@terra.net.au. Applications close 30 June.

### **The Australian and New Zealand Council for the Care of Animals in Research and Teaching (ANZCCART) Student Award (I,L,R,C)**

- \$1,000 for attendance at the annual conference

Applicants can be postgraduate students from any discipline. The award provides assistance for a student to attend the annual conference. Applications are available from ANZCCART, PO Box 19, Glen Osmond, SA, 5064, Tel (08) 303 7325. Applications close in July.

### **The Australian Pain Relief Association and Australian Pain Society PhD Scholarship (L,R)**

- \$16,750 pa plus allowances
- Up to 3 years subject to satisfactory progress

Applicants must hold an Honours 1 degree and be proposing to undertake a PhD in the mechanism, diagnosis, treatment or epidemiological features of acute or chronic (including cancer) pain. Further information and applications are available from the Australian Pain Society Secretariat, PO Box 629, Willoughby NSW 2068, Tel (02) 9439 6744. The award is offered bi-annually. Applications close early November.

### **The Australian Society for Microbiology (L,R,C)**

- \$100 - \$10,000

The Australian Society for Microbiology (ASM) provides prizes and awards, for study, research and projects related to Microbiology. More information can be obtained from the ASM National Office, Unit 23/20 Commercial Rd, Melbourne VIC 3004, Tel (03) 9867 8699, Fax (03) 9867 8699.

### **The Australian Spinal Research Foundation Postgraduate Research Awards (I,L,R)**

- Equivalent to Australian Postgraduate Award (see APA entry under General)
- Up to 2 years for a Masters by Research or 3 years for a PhD degree

Applicants must be undertaking a Masters by Research or PhD in an area designed to contribute to an understanding of the anatomical and physiological mechanisms underlying chiropractic care or the clinical efficiency of chiropractic care and management procedures. Information and applications are available from the Australian Spinal Research Foundation, PO Box 1047, Springwood Qld 4127, Tel (07) 3808 4098, Fax (07) 3808 8109, Email: t.flack@qut.edu.au. Applications close mid-October.

### **The Captain Reg Saunders Scholarship (L,R,C)**

- \$3,000
- Up to 4 years

Applicants must be Aboriginals or Torres Strait Islanders eligible to commence a university degree in the area of psychology, nursing, applied science, social work or education. Further information and applications are available from the Aboriginal Education Program, UNSW, Tel (02) 9385 3805.

### **The Community Health and Anti-Tuberculosis Association - The Harry Windsor Biomedical and Medical Research Scholarship (L,R)**

- \$23,630 pa (Medical postgraduates), \$15,888 (Biomedical Science graduates) plus allowances
- Up to 3 years

Applicants must be proposing to undertake full-time postgraduate medical research in the areas of tuberculosis, respiratory disease (particularly community aspects) or the health of disadvantaged people. Only original application forms will be accepted and are available from The Executive Officer, Community Health and Anti-Tuberculosis Association, PO Box 200, Rose Bay, NSW 2029, Fax (02) 9371 9768. Applications close 1 August.

### **The Cooperative Research Centre for Eye Research and Technology (CRCERT) Postgraduate Research Scholarship (I,L,R)**

- \$15,321 - \$19,827 pa (depending on the type of research)
- 3 years

The scholarship is available for full-time PhD studies in subjects such as optometry, microbiology, biochemistry, optics, materials science, polymer chemistry and immunology. For information about application procedures applicants should initially contact Dr Mark Wilcox, CRCERT, University of New South Wales, Sydney 2052, Tel (02) 9385 0222.

### **The Clean Air Society of Australia and New Zealand Inc Postgraduate Research Award (I,L,R,C)**

- \$5,000 pa
- 1 year, with a possible 1 year extension

The scholarship is open to students enrolled in a Masters degree program with a significant research component connected with air quality. Applications close early February.

### **The CSIRO Division of Fisheries Supplementary PhD Awards (L,R)**

- \$10,000 pa
- Up to 3 years

This scholarship is a supplement to any primary scholarship (eg APA) for PhD study in marine studies, environmental studies, zoology, botany, broadly-based life sciences, economics and mathematics. Applications close early March.

### **The Dairy Research and Development Corporation (DRDC) Postgraduate Education Program (L,R)**

Awards to undertake full-time postgraduate research degrees are available in a wide range of disciplines including dairy manufacturing, farm research, economics and marketing, and agricultural extension. New and experienced applicants are welcome to apply. Guidelines and applications are available from the Scholarships and Student Loans Unit or DRDC, Level 3, 84 William Street, Melbourne VIC 3000, Tel (03) 9602 5300. Applications close 31 October.

### **The Forest and Wood Products Research and Development Corporation (FWPRDC) Scholarships (L,R)**

- Up to \$25,000 pa
- Up to 3 years

The scholarships are open to students undertaking a postgraduate research degree at an Australian University. Selection is based on academic merit and the relevance of the project to FWPRDC Programs. Further information and applications are available from the Executive Director, FWPRDC, PO Box 157, Bond University Qld 4229, Fax (07) 5578 7911. Applications close early October.

### **The Garnett Passe and Rodney Williams Memorial Foundation Research Scholarships in Otolaryngology (I,L,R)**

- \$15,364 pa for science graduates, \$22,850 pa for medical graduates, plus allowances
- 3 years

The scholarships are available to medical or science graduates for research in Otolaryngology or in related fields of biomedical science. Applicants must be enrolled in a postgraduate degree in Australia or New Zealand. Information and applications are available from the Garnett Passe and Rodney Williams Memorial Foundation, Pelham House, 165 Bouverie St, Carlton VIC 3053, Tel (03) 9349 2622, Fax (03) 9349 2615. Applications normally close in August.

### **The Gerontology Foundation Grant-In-Aid (I,L,R,C)**

- Up to \$5,000 for a specific research project

Grants-In-Aid are awarded to students who have not had their work published in a refereed journal and who have not won any research grants in open competition. The grant supports a proposed scientific investigation topic specified by the Foundation. Information and applications are available from The Executive Officer, Gerontology Foundation of Australia Inc, PO Box 199, Annandale NSW 2038. Applications normally close late July.

### **The Gowrie Scholarship Trust Fund (L,R)**

- \$4,000 pa
- 2 years

Applicants must be members of the Forces or children (or grandchildren or lineal descendants) of members of the Forces who were on active service during the 1939-45 War. Tenable at tertiary institutions in Australia and overseas. Applications close early October.

### **The Grains Research and Development Corporation (GRDC) Junior Research Fellowship (L,R)**

- \$21,000 pa plus up to \$3,000 to the supporting institution, some conference/workshop attendance allowances
- Up to 3 years

Applicants must be undertaking full-time PhD studies in fields of high priority to the grains industry. Applications close mid-October.

### **The Great Barrier Reef Marine Park Authority Research Support (I,L,R)**

- \$1,500

Applicants must be undertaking a full-time PhD research project that could contribute to the planning and managing work undertaken by the Great Barrier Reef Marine Park Authority. Applications and further information may be obtained from the Executive Officer, Great Barrier Reef Marine Park Authority, PO Box 1379, Townsville QLD 4810, Tel (077) 818811. Applications close mid-December.

### **The Harold G. Conde Memorial Fellowship (L,R,C)**

- \$5,000 pa subject to the availability of funds
- Up to 3 years

Applicants should be honours graduates. The Fellowship is a supplementary award to be held in conjunction with another scholarship and is for postgraduate study or research in a field related to the electricity industry. Applications close early April.

### **The Julian Small Foundation Annual Research Grant (I,L,R)**

- Up to \$5,000

Applications are open to postgraduate and undergraduate students undertaking research and involved in the study of law, or industrial relations. Selection will be based on a research proposal which outlines how the research will advance thinking and practice in the area of employment law and industrial relations in Australia. Applications close mid-August.

### **The June Opie Fellowship (I,L,R,C)**

- NZD\$12,000
- 1 year

The award is administered by the University of Auckland and is available to Citizens and Permanent Residents of Australia, Canada and New Zealand, and is designed as an incentive for students of high academic achievement who have a severe disability. It is primarily intended for those who plan to undertake postgraduate study with a

view to preparing themselves for a role in the professions, in politics or more particularly in university teaching and research and who have disability issues as a continuing interest. Applications close with the University of Auckland in late October.

### **Land and Water Resources Research and Development Corporation (LWRRDC) Postgraduate Research Scholarships (I,L,R)**

- \$20,000 pa plus \$5,000 for operating expenses
- 2 years for Masters, 3 years for a PhD degree

General Research Scholarships are available for research that will lead to better management, sustainable use and conservation of land, water and vegetation resources in Australia. Irrigation Research Scholarships are specifically for research that will lead to better management, sustainable use and conservation of natural resources in Australia. Applications are available from the Scholarships and Student Loans Unit or LWRRDC, GPO Box 2182, Canberra ACT 2601, Tel (02) 62573379. Applications close early October.

### **The Lionel Murphy Postgraduate Scholarship (L,R,C)**

- \$15,000 pa for study in Australia, up to \$30,000 for study overseas
- 1 year

Applicants must be intending to undertake a postgraduate degree in Law, Science, Legal Studies or other appropriate discipline. Preference will be given to applicants who propose to study the law and legal system in a social context, science/law or international law. Information and application forms are available from the Lionel Murphy Foundation, GPO Box 4545, Sydney NSW 2001, Tel (02) 9223 5151, Fax (02) 9223 5267. Applications close mid-September.

### **The MBF Health Research Awards-Postgraduate Research Scholarships**

- Similar to NHMRC guidelines

The scholarships are open to students undertaking an MD or PhD in the areas of preventative health care, disease/drug management, evaluation of health care delivery outcomes, health policy evaluation and public health promotion/communication. Applications are available from The Executive Assistant, Research Team, Medical Benefits Fund of Australia Ltd, 97-99 Bathurst St, Sydney NSW 2000. Tel (02) 9323 9158. Fax (02) 9323 9168. Applications close late February.

### **The Meat and Livestock Australia (MLA) Studentships and Junior Research Fellowships (L,R,C)**

- \$15,888 pa for study in a Masters or Diploma, \$20,000 for a PhD in Australia or US\$17,500 for study overseas, plus airfares, insurance and allowances

- 2 years for Studentships (Masters or Diploma), 3 years for Junior Research Fellowships (PhD)

Applicants should be proposing to undertake research in disciplines relevant to the meat and livestock industry. Applications normally close late September.

### **The Menzies Research Scholarship in Allied Health Sciences (L,R)**

- Up to \$24,000 pa
- 2 years

The scholarship is awarded to stimulate research in the non-medical allied health disciplines. Applicants should be full-time students, who have completed the first stage of a PhD program. Applications are available from The Menzies Foundation, 210 Clarendon St, East Melbourne VIC 3002, Fax (03) 9417 7049. Applications close late June.

### **The Minerals Council of Australia Student Research Award (I,L,R)**

- \$500 plus travel and accommodation for the Environmental Workshop

The award is open to scholars who have completed or are undertaking postgraduate studies, and is aimed at encouraging excellence in student research and communication in the field of environmental management in mining. The award will be judged on a paper written for and presented at the Minerals Council of Australia's Environmental Workshop. Nominations close early May.

### **The National Health and Medical Research Council (NHMRC) Training Scholarship for Aboriginal Health Research (L,R)**

- \$15,888 - \$23,630 pa (depending on qualifications)
- Up to 3 years

Applicants must be undertaking an undergraduate or postgraduate degree which includes, or leads to, research relevant to Aboriginal health. Applications will be assessed in terms of previous qualifications and experience. Consideration will be given to prior knowledge and experience of Aboriginal culture and health. Applications close early August.

### **The National Health and Medical Research Council (NHMRC) Dora Lush Biomedical Postgraduate Scholarships (L,R)**

- \$15,888 pa, \$20,503 for HIV/AIDS research, \$17,888 for special initiative scholars, plus allowances
- Up to 3 years

Applicants must have completed a Science degree with Honours, or equivalent, at the time of submission of the application. Current APA holders or students enrolled in the final year of an Honours degree at the time of application are not eligible. Applications close early August.

### **The National Health and Medical Research Council (NHMRC) Medical and Dental Postgraduate Scholarships (L,R)**

- \$23,630 pa plus allowances
- Up to 3 years

The scholarships are open to medical and dental graduates to undertake full-time research. Applications are particularly encouraged for research in the following special initiative areas: Aboriginal health and disease, prostate cancer, alcohol and substance abuse, nursing and allied health services, dementia, schizophrenia, injury and HIV/AIDS. Applications close early August.

### **The National Health and Medical Research Council (NHMRC) Public Health Postgraduate Scholarships (L,R)**

- \$23,630 pa (medical/dental graduates), \$15,888 pa (other graduates), \$20,503 pa for HIV/AIDS research, \$17,888 pa for special incentive scholars, plus allowances
- Up to 3 years

The scholarships are open to medical/dental or health related graduates to obtain training in public health research. Applications are particularly encouraged for research in the following special initiative areas: Aboriginal health and disease, prostate cancer, alcohol and substance abuse, nursing and allied health services, dementia, schizophrenia, injury and HIV/AIDS. Applications close early August.

### **The National Heart Foundation of Australia Postgraduate Medical and Science Research Scholarships (L,R)**

- \$17,637 pa (science), \$23,257 pa (medical) plus \$1,200 departmental allowance
- Up to 3 years subject to satisfactory progress

Scholarships are available to science or medical graduates for research in cardiovascular function, disease or related problems. Applicants must usually reside in Australia. Further information and applications are available from the Medical Director, National Heart Foundation, PO Box 2, Woden ACT 2606. Medical applications close in May and Science applications close in October.

### **The National Tertiary Education Union (NTEU) Scholarship for the Study of Industrial Relations and Unionism in Australian Tertiary Education (I,L,R)**

- \$5,000 pa
- Up to 3 years

Applicants must have made or intend to make an application for candidacy for a Masters by Research or PhD in a topic which covers some aspect of industrial relations, policy issues and/or unionism related to Australian tertiary

education. Further information is available from NTEU, PO Box 1323, South Melbourne VIC 3205, Tel (03) 9254 1910. Applications close early November.

### **The National Multiple Sclerosis Society of Australia Postgraduate Research Scholarships (L,R)**

- Same as NHMRC scholarship stipends for medical and biomedical graduates
- Up to 2 years

Scholarships are available to medical graduates (or to appropriately qualified science graduates or health professionals) enrolled in a postgraduate research degree. Applications close mid-July.

### **The NSW Ministry for the Arts Scholarships (L)**

- \$5,000 - \$25,000 (depending on the award)

The NSW Government offers a number of scholarships and awards to writers, artists and scholars living in NSW. Further information is available from the New South Wales Ministry for the Arts, GPO Box 5341, Sydney NSW 2000, Tel (02) 9228 3533, Fax (02) 9228 4722.

### **The Pig Research and Development Corporation (PRDC) Postgraduate Top-Up Scholarships (L,R)**

- Up to a maximum of \$21,000 as a supplement to other scholarships, plus allowances

Applicants must be eligible for another scholarship and be undertaking research relevant to increasing the competitiveness of the Australian pig industry. Applications close mid-December.

### **The Postgraduate Equity Scholarships (L,C)**

- Substitution of HECS for tuition fees
- Duration of the course if eligibility criteria continue to be satisfied

These scholarships allow postgraduate students enrolled in full-fee courses to pay HECS for their course rather than course fees. Students granted the scholarship must still pay Student Activity Fees. Students who have previously completed a postgraduate course in Australia at the same or higher level are not eligible. Applications for Session One close 30 January. Applications for Session Two close 15 July.

### **Financial Need HECS Substitution Scholarships**

Applicants must be in receipt of a full allowance from the Department of Social Security (DSS), Department of Veteran Affairs, or AUSTUDY.

### **HECS Substitution for Scholarships for Women**

A limited number of scholarships are provided to women enrolling in postgraduate courses after a period of absence

from study and/or employment who are seeking to extend their professional experience in order to re-enter the workforce. Preference will be given to women enrolling in courses which have a low female enrolment. Selection will take into account the applicant's academic merit, her personal statement, including details of a well-planned future career path, and referee's support. The scholarship is tenable for the duration of the course.

### **The Re-Entry Scholarship for Women (I,L,R,C)**

- \$15,888 pa (equivalent to the Australian Postgraduate Award)
- 1 year

Applicants must be women who have been out of full-time paid professional employment for a period of time and who wish to take up or resume a full-time research or coursework program of postgraduate study. Priority will be given to applicants wishing to update their research skills or to those who wish to gain further experience in order to return to employment in industry, business or education. Applicants must be able to demonstrate a well-planned career path. A letter of application and curriculum vitae should be forwarded to the Scholarships and Student Loans Unit, UNSW. Applications close 31 October.

### **The River Basin Management Society Ernest Jackson Memorial Research Grants (I,L,R)**

- Up to \$2,000

The scholarship assists PhD and Masters students undertaking research in the field of river basin management. PhD, Masters and 4th year Honours students are encouraged to apply. Further information is available from RBMS, PO Box 113, Forest Hill Vic 3131, Tel (03) 9816 6896. Applications close in April.

### **The Ronald Henderson Postgraduate Scholarships (L,R)**

- \$5,000 pa as a supplement to an APA
- Up to 2 years for Masters by Research, 3 years for a PhD

The scholarships are open to graduates who intend to commence Masters or PhD studies in social economics, and who obtain an APA or equivalent university postgraduate award. Applicants may be proposing study in qualifications in economics, commerce or arts. Information and applications are available from the Ronald Henderson Research Foundation, 5th Floor, 165 Flinders Lane, Melbourne VIC 3000, Tel (03) 9654 8299, Fax (03) 9650 7501, Email: lance@creativeaccess.com.au. Applications close in late October.

### **The RSPCA Alan White Scholarship (I,L,R)**

- \$2,500

Applicants should be undertaking original research to improve the understanding and welfare of animals.

Applicants must have a sound academic record and demonstrate a major commitment animal welfare issues. A letter of application including two referees and academic transcripts, should be sent to the Executive Officer, RSPCA Australia, PO Box E369, Queen Victoria Terrace, Canberra ACT 2600, Tel (02) 62311437. Applications close mid-March.

### **The Rural Allied Health Placement Grants (L,R)**

- Up to \$500

Grants are available to students undertaking a postgraduate course in dietetics or psychology (Masters). Applications are available from the NSW Health Rural Health Support Unit, Tel (02) 6640 2302, Fax (02) 6640 2499, Email rhsu@nor.com.au, web: www.nor.com.au/community/rhsu. Session One applications close 15 May. Session Two closing dates are available in August.

### **The Rural Allied Health Scholarships (L)**

- \$5,750

Scholarships are available to students in any year of a postgraduate course in dietetics or psychology (Masters). Applications are available from the NSW Health Rural Health Support Unit. Tel (02) 6640 2302, Fax (02) 6640 2499, Email rhsu@nor.com.au, web: www.nor.com.au/community/rhsu. Applications close late September.

### **The Rural Industries Research and Development Corporation (RIRDC) Postgraduate Scholarships (L,R)**

- \$21,500 pa plus \$3,500 to the host institution
- Up to 3 years

The scholarships are available for postgraduate study in rural research and development in areas of interest to the Corporation. Applicants must hold an Honours 1 or 2/1 degree in an appropriate discipline. Applications from mature age students with rural industry experience are particularly encouraged. Applications close in early November.

### **The Social Policy Research Centre (SPRC) Postgraduate Research Scholarship (L,R)**

- \$15,888 pa (equivalent to the APA), plus allowances
- 3 years for a PhD

Applicants should hold a Bachelors Degree with at least Honours 2/1 in any of the fields of study relevant to social policy. The successful candidate will be enrolled in a relevant School of the University but will undertake research at the Centre. Prospective applicants must contact the School in which they wish to enrol. Application packages are available from the Administrator, Social Policy Research Centre, UNSW, Tel (02) 9385 3833. Applications close late November.

### **The State Librarian's Metcalfe Scholarship at UNSW (L,R,C)**

- At least \$2,000

The scholarship is open to suitably qualified applicants to undertake a Masters or PhD in the areas of librarianship, marketing or technology. Selection will be based on academic merit, the outline for the proposed area of study and demonstrated interest in librarianship. Applications normally close 30 November.

### **The Sugar Research and Development Corporation (SRDC) Postgraduate Scholarships (L,R)**

- \$22,000 pa plus \$3,000 to the host institution
- Up to 3 years

The scholarships are available to foster research in disciplines compatible with the SRDC's research priorities. Applicants should hold an Honours degree or equivalent and have a strong motivation to make a professional career in the sugar industry. Further information and applications are available from the Executive Director, Sugar Research and Development Corporation, PO Box 12050, Brisbane Elizabeth St Qld 4002, Tel (07) 3210 0495, Fax (07) 3210 0506. Applications close mid-September.

### **The Sydney Gay and Lesbian Business Association Scholarship (L, R, C)**

- \$1,500
- 1 year

The scholarship is provided to encourage the participation of gay men and lesbians in business and management careers. Scholarships are available to full-time students in Commerce or the AGSM. Applicants must be gay or lesbian. Applications normally close 15 April.

### **The Telstra Research Laboratories Postgraduate Research Fellowship (L,R)**

University departments may apply for the Fellowships for one or more of their PhD students who are undertaking research relevant to the telecommunications industry in the fields of electrical engineering, computer science, science, psychology, social science or economics or other appropriate course. Further information is available from the Fellowship Applications Officer, Telstra Research Laboratories, Box 249, Rosebank MDC, Clayton Victoria 3169. Email: c.zaman@trl.telstra.com.au. Applications close late September.

### **United Uranium Trust Fund Scholarship**

This Scholarship is available for the study of nuclear science and technology at the Australian Nuclear Science and Technology Organisation (ANSTO) or other designated institution. Applicants must be under 40 years of age.

Further information and applications are available from ANSTO on telephone (02) 9543 3111.

### **VSDC Deafness Projects (L)**

Tertiary Education Scholarships may be awarded to deaf students undertaking tertiary courses related to deafness, deaf education, or fields which will advance the interests of deaf people. Applicants must be Permanent Residents of Australia. Further information is available from the VSDC-SerVices for Deaf Children, PO Box 6466, St Kilda Rd Central, Melbourne Vic 3004. Applications close mid-May.

### **The Wenkart Foundation Grants (L,R)**

- Up to \$22,000 pa
- 2 years with the possibility of renewal

Applicants must be undertaking full-time research in clinical, biomedical or health related clinical sciences. The grants will not be available again until the 1999 academic year. Applications close mid-May.

### **The Zonta International Amelia Earhart Awards (I,L,R)**

- US\$6,000
- 1 year

Applicants must be women who have completed one year graduate study in an aero-space related science or engineering degree. Further information and applications are available from Zonta International, 557 West Randolph St, Chicago, Illinois 60661-2206, USA, Tel +1 312 930 5848, Fax +1 312 930 0951. Applications close early November.

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## **Faculty**

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### **Faculty of Medicine**

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#### **Children's Cancer Institute Australia (CCIA) Postgraduate Supplementary Awards (I,L,R)**

- Up to \$5,000 pa supplement to an APA or equivalent scholarship
- Up to 3 years

The awards are available to students enrolled in the Faculty of Medicine, UNSW and undertaking full-time doctoral study with the Children's Cancer Institute Australia. Candidates must hold a Bachelor of Science degree with Honours or equivalent qualification. Applicants should be in receipt of an APA or similar scholarship. Further information is available from the Children's Cancer Institute Australia, PO



Box 81, Randwick NSW 2031, Tel (02) 9382 1829, Fax (02) 9382 1850, e-mail: ccia@unsw.edu.au.

### **The Faculty of Medicine Dean's Scholarships (I,L,R)**

- Equivalent to Australian Postgraduate Award (see APA entry under General)
- 1 year renewable annually subject to satisfactory performance

The scholarships are available to students undertaking postgraduate studies in the Faculty of Medicine. A maximum of three students can be assisted at any time. A new award will only be offered when a current recipient ceases to receive assistance. Information and applications are available from the Faculty of Medicine, UNSW, Tel (02) 9385 2444.

### **The Lions Club Scholarship for Cord Blood Research (I,L,R)**

- Up to \$20,000 pa
- Up to 3 years

The scholarship is available to a student undertaking a doctorate in haematology or a related field at the Children's Cancer Institute Australia. Candidates must hold a Bachelor of Science degree with Honours or equivalent qualification. Only one student can be supported at any time. Further information is available from the Children's Cancer Institute Australia, PO Box 81, Randwick NSW 2031, Tel (02) 9382 1829, fax (02) 9382 1850, e-mail ccia@unsw.edu.au. Applications close 23 November.

### **The Wally Leyman Scholarship (L,R)**

- \$20,000 pa
- Up to 3 years, subject to satisfactory progress

The Scholarship is provided to support a doctoral scholar at UNSW and to promote research within the Children's Cancer Institute Australia (CCIA). Applicants must be undertaking doctorate study at UNSW in paediatric oncology or a related field. Applicants must hold a Bachelor of Science (Hons) degree or MBBS or equivalent. Selection will be based on academic merit and the merit of the proposed research. Applications close mid-January. A new award will only be offered when the current recipient ceases to receive assistance. The award is expected to be available again in 2001.

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## **Travel Scholarships**

Students in receipt of postgraduate scholarships not listed below may, if the scholarships conditions allow, spend a period of time overseas undertaking research relevant to their Australian qualification.

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## **General Travel**

### **AAUW Educational Foundation Awards (I,L,R,C)**

The American Association of University Women (AAUW) offers a range of scholarships and fellowships for full-time study in the United States. Additional information may be obtained from the Association's website: <http://www.aauw.org>

### **AAUW Educational Foundation International Fellowships (I,L,R,C)**

- US\$16,000
- 1 year

The American Association of University Women (AAUW) offers Fellowships for full-time postgraduate study or research in the United States for one academic year.

Applicants must be females who have earned the equivalent of a United States Bachelor's degree and who are not US Citizens or Permanent Residents. Applicants can be preparing to undertake study in a broad range of disciplines including arts and humanities, physical and biological sciences, social sciences, law, economics, political sciences, or studies important to changing the lives of women and girls. International fellows can also qualify for a supplemental grant (US\$5,000-\$7,000) to support a community action project designed to improve the lives of women and girls for study in the fellow's home country in the year immediately following the fellowship year. Application packs are available from the AAUW Educational Foundation, Customer Centre, Dept 141, N. Dodge St, Iowa City, IA 52243-4030 USA. Applications close mid-January for the Fellowship year commencing in July.

### **The ACSANZ Postgraduate Awards for Canadian Studies (I,L,R)**

- Up to \$2,800 towards a research trip to Canada

The Association for Canadian Studies in Australia and New Zealand will offer grants to postgraduate students wishing to undertake a short research trip to Canada. Applicants must be enrolled in a Masters or Doctoral degree at an Australian or New Zealand university. Grants will be for research into all areas of academic enquiry that have a distinctly Canadian orientation, for example in the

humanities, social and political sciences and some branches of the health and environmental sciences. Information and applications are available from the Academic Relations Officer, Canadian High Commission, Commonwealth Avenue, Canberra, ACT 2600, Tel (02) 6273 3844, Fax (02) 6270 4083, Email [co.cnbra@cnbra01.x400.gc.ca](mailto:co.cnbra@cnbra01.x400.gc.ca). Applications close late September.

### **The Asian Studies Library Awards (ASLA) (L,R)**

- \$250 to \$800 in a lump sum

Applicants must be undertaking a Masters by Research or PhD. The award provides a contribution towards the travel costs to centres with Asian collections to undertake library research. Further information and application forms are available from the Project Co-ordinator, Asian Studies Library Awards, Collection Management Division, Library ANU, Canberra ACT 2600. Applications close mid-June.

### **The Association of International Education Japan (AIEJ) Short-Term Student Exchange Promotion Program (Inbound) Scholarships (I,L,R,C)**

- 50,000 yen (settling-in allowance), 80,000 yen per month, plus airfare
- Six months to one year

Applicants must be accepted by a Japanese University under a student exchange program agreement with UNSW. Students must initially apply directly to a Japanese University through the International Student Centre at UNSW. The Japanese host university will recommend candidates to AIEJ and students must apply as directed by the host university. Applications close in February, May and September each year.

### **The Association of International Education Japan (AIEJ) Short-Term Student Exchange Promotion Program (Inbound) Peace and Friendship Scholarships (I,L,R,C)**

- 50,000 yen (settling-in allowance), 100,000 yen per month, plus airfare
- Ten months to one year

Applicants must be accepted by a Japanese University under a student exchange program agreement with UNSW. Students must initially apply directly to a Japanese University through the International Student Centre at UNSW. The Japanese host university will recommend candidates to AIEJ and students must apply as directed by the host university. Applications close in February, May and September each year.

### **Association of University Women Educational Foundation-Charles & June Ross International Fellowship (L,R,C)**

- US\$15,400
- 1 year

The fellowship is available to Australian women who have graduated from an Australian University and who are proposing to undertake one year of full-time postgraduate study or research in the United States. Applicants must be members of the Australian Federation of University Women or AAUW and intend to return to Australia to pursue their professional career. Information and applications are available only from AAUW Educational Foundation, PO Box 4030, Iowa City, Iowa 52243-4030, USA, Tel +1 319 337 1716, Fax +1 319 337 2201. Applications close late November.

### **The AT&T Leadership Award (I,L,R,C)**

- US\$5,000

The award is open to students who will be commencing full-time undergraduate or postgraduate study in the United States between January and September in the year of application. The scholarship is open to students from the following Asia/Pacific countries: Australia, China, Hong Kong, India, Indonesia, Japan, Republic of Korea, Malaysia, Philippines, Singapore, Taiwan and Thailand. Information and applications are available from the U.S. Consulate General, USIS, Level 59 MLC Centre, 19-20 Martin Place, Sydney NSW 2000, Tel (02) 9662 3016. Applications close 15 September.

### **The Australian Academy of Science International Exchange Programs (L,R)**

The Academy administers exchange programs which support collaborative research between professional Australian scientists and technologists with countries such as the UK, France, Germany, Taiwan, China, Korea and Japan. The programs provide funds for living and travelling costs. Applicants must be Australian citizens who hold a PhD degree or equivalent. Information is available from International Programs, The Australian Academy of Science, fax (02) 6257 4620, Email: [is@science.org.au](mailto:is@science.org.au), web site: <http://www.science.org.au/internat/exchange/contscix.htm>.

### **The Australia-Korea Foundation Awards (L,R,C)**

The AKF provides assistance to Korean language graduates who will be undertaking teacher training in the Korean language, or for work-experience programs. Information and applications are available from the Programs Co-ordinator, National Korean Studies Centre, PO Box 218, Hawthorn Vic 3122. Email: [nksc@swin.edu.au](mailto:nksc@swin.edu.au).

### **The Australian Bicentennial Scholarships and Fellowships Scheme (L,R,C)**

- £4,000 sterling
- At least 3 months

Awards are available for study or research in the United Kingdom in any discipline, where it can be demonstrated that there is an advantage to be gained from a period of study in the U.K. Applicants must be enrolled as postgraduate students at an Australian higher education institution and who are usually resident in Australia. Applications are available from the Secretary, Sir Robert Menzies Centre for Australian Studies, University of London, 28 Russell Square, London, WC1B 5DS, UK, Tel +44 171 580 5876, Fax +44 171 580 9627, Email mcintyre@sas.ac.uk. Applications close early November.

### **The Australian Federation of University Women (AFUW) (I,L,R,C)**

Each year the Federation offers to its members a number of awards for study in Australia and overseas. Details of awards are included in a booklet available from the Australian Federation of University Women Inc, 215 Clarence St, Sydney NSW 2000, Tel (02) 9299 9888.

### **The British Aerospace Australia Chevening Scholarship (L,R,C)**

- Tuition fees, maintenance allowance, airfare
- 1 year

The scholarship is available for study in an approved, one-year MSc course in aerospace engineering at a British university. Applicants must hold, or expect to complete before October, an Honours 1 or 2/1 degree. Application forms are available from the British Council, PO Box 88, Edgecliff NSW 2027, Tel (02) 9326 2022, Fax (02) 9327 4868. Applications close late October.

### **The British Chevening Scholarships (L,R,C)**

- Tuition fees, maintenance allowance and return airfare
- 3 months to 1 year

The awards are intended for outstanding graduates and young professionals with the potential to rise to senior positions in the private or public sectors and will contribute to Australian-British relations and understanding. The awards are tenable for postgraduate study at British universities. Application forms are available from the British Council, PO Box 88, Edgecliff NSW 2027, Tel (02) 9326 2022, Fax (02) 9327 4868. Applications close in October.

### **British Council Postgraduate Bursaries (L,R)**

- Return economy airfare plus monthly stipend of £450
- 3 months

The scholarships are available for students enrolled in a full-time PhD who are proposing to spend three months at a British University or similar institution to take advantage of British expertise, equipment or data. Applications should be received by the British Council a minimum of 6 months prior to departure. Further information and applications are available from the British Council, PO Box 88, Edgecliff NSW 2027, Tel 9326 2022, Fax 9327 4868.

### **The Cambridge Commonwealth Trust Scholarships (L,R,C)**

The Cambridge Commonwealth Trust administers several scholarships for Australian Citizens to undertake postgraduate study at the University of Cambridge. Scholarship application forms should be requested from the University of Cambridge when applying for admission. Admission forms and copies of the Graduate Studies Prospectus are available from The Board of Graduate Studies, 4 Mill Lane, Cambridge CB2 1RZ, United Kingdom. By submitting one Scholarship Application Form, applicants will be considered for all the Trust's scholarships for which they are eligible. Information on how to apply is available from the Honorary Secretary, Australian Committee of the Cambridge Australia Trust, GPO Box 93, Canberra ACT 2601, Tel (02) 6248 7744, Fax (02) 6248 6287. Applications for admission to Cambridge close 31 January and scholarship applications close 30 April in the following year.

### **The Cancer Research Fellowship Programme (I,L,R)**

- Travel expenses and living allowances
- 1 year

Applicants should be engaged in research in medicine or the allied sciences and intending to pursue a career in cancer research. The awards are tenable at the International Agency for Research on Cancer in France, or any other suitable institution abroad. Areas of research include epidemiology, biostatistics, environmental and viral carcinogenesis and mechanisms of carcinogenesis. Applications are available from the International Agency for Research on Cancer, 150 cours Albert-Thomas, 69372 Lyon Cedex 08, France, Tel 72 73 84 85, Fax 72 73 85 75. Applications normally close in December.

### **Churchill Fellowships (L)**

- Tuition, travel and living allowances

Churchill Fellowships provide financial support for Australian Citizens to undertake study, training or projects overseas. Fellowships will not normally be awarded for higher academic or formal qualifications however. Applicants must be over 18 years of age. Further information and applications are available from the Chief Executive Officer, The Winston Churchill Memorial Trust, 218 Northbourne Ave, Braddon ACT 2612, Tel (02) 6247 8333. Applications close late February.

### **The Commonwealth Scholarship and Fellowship Plan (CSFP) (L,R,C)**

- Varies for each country. Generally covers travel, living expenses, tuition fees, books and equipment, approved medical expenses
- Usually 2-3 years depending on the country

CSFP provides opportunities for Commonwealth students to undertake advanced academic study in other Commonwealth countries. Candidates should be Commonwealth Citizens who hold an undergraduate degree. Applications close at different times depending on the country in which the study is proposed.

### **The Coral Sea Scholarship (L,R,C)**

- \$3,000 per month, plus \$2,500 travel entitlement
- Up to 3 months

The award is for applicants holding a tertiary qualification who are proposing study in the United States, to investigate a problem or opportunity relevant to Australian business or industry. Applicants must be Australian Citizens (Permanent Residents are not eligible). Further information and applications are available from the Fulbright Home Page, <http://sunsite.anu.edu.au/education/fulbright>, or by contacting the Program Officer, Australian-American Educational Foundation, GPO Box 1559, Canberra ACT 2601, Tel (02) 6247 9331, Email [amanda@aaef.anu.edu.au](mailto:amanda@aaef.anu.edu.au). Applications close 30 September.

### **DAAD- The German Academic Exchange Service Scholarships (I,L,R,C)**

Application forms and information (including closing dates) for the following scholarships are available from the Embassy of the Federal Republic of Germany, 119 Empire Circuit, Yarralumla, Canberra ACT 2600.

#### **One-Year Scholarships**

- Monthly allowance between DM1,000 and DM1,700, airfares, health and accident insurance, and tuition fees
- 1 year

Scholarships are available for graduate studies in Germany. Applicants must be aged 32 or under and hold a Bachelors degree (or equivalent). A working knowledge of German is required of those who study arts, others may receive additional language training prior to the commencement of the scholarship. Applications normally close in September.

#### **Research Grants**

- Monthly stipend of DM1,700, health insurance contribution and travel assistance of DM2,500
- 2 to 6 months

PhD students can apply for assistance to undertake a short period of research in Germany. Applicants must be aged 32 or under.

### **Information Visits by Groups of Professors and Students**

Groups (minimum of 10 persons, maximum of 20 persons) of professors and students can apply for assistance to visit Germany with the intention of increasing the knowledge of specific German topics. The program offers support in making travel and study arrangements and may include some financial assistance (based on the length of the stay and the number of persons undertaking the study tour). The period of stay must be between 7 and 21 days. No tours will be organised for July or August.

### **Deutschlandkundlicher Winterkurs**

- Course fees, DM3,500 to assist with travel and living expenses, health insurance
- 8 weeks (3 January - 21 February)

Undergraduate and postgraduate students from all fields with at least two years university-level German may apply for this scholarship. Applicants must be Australian or New Zealand Citizens, aged from 19 to 32 and proposing to undertake a German Studies course (in German) at the Albert-Ludwigs University of Freiburg. The course provides language instruction and concentrates on historical and cultural aspects of contemporary Germany for students with a background in German Studies. Applications usually close in early August.

### **East West Center Graduate Degree Fellowship (I,L,R,C)**

- Accommodation, monthly stipend of US\$600, tuition fees, health insurance plus allowances
- 12 months with a possible one year extension

The Fellowships are available for postgraduate study at the University of Hawaii, preferably at Masters level. Citizens of the United States and Asian or Pacific countries are eligible to apply. Potential applicants must request an application package direct from the East West Centre, Awards Services Officer, Burns Hall 2066, 1601 East-West Road, Honolulu Hawaii 96848-1601, USA, Tel +1 808 944 7735, Fax +1 808 944 7730. Applications close early October.

### **The English-Speaking Union (NSW Branch) Scholarship (L,R,C)**

- Up to \$8,000

The scholarship assists graduates who, at the outset of their careers, are seeking to further their education overseas. The scholarship is open to Australian citizens living in NSW or the ACT, whose intention it is to return to Australia after undertaking study overseas. Further information is available from The English-Speaking Union (NSW Branch), PO Box A2156, Sydney South NSW 1235, Tel (02) 9231 0667. Applications close early June.

### **Frank Knox Memorial Fellowships (L,R,C)**

- US\$15,000 pa plus tuition fees and health insurance
  - 1 year with the possibility of renewal for a further year
- Applicants must be undertaking, or near completion of, a postgraduate qualification at an Australian University. The scholarships are tenable at one of Harvard University's graduate schools. Applications close early October.

### **The Fulbright Postgraduate Student Awards (L,R)**

- Up to \$28,506, depending on the type of award, with the possibility of other allowances (eg return airfares and tuition fees)
- 1 year

Students planning to undertake an American higher degree or engage in research towards an Australian higher degree in any field can apply for the Fulbright Student Awards. Four other privately sponsored awards are available - The Engineering Award, The Aboriginal and Torres Strait Islander People Award, The Visual and Performing Arts Award, and The Tim Matthews Memorial Award in Statistics and Related Disciplines. Applicants must be Australian Citizens who have completed an Honours degree (or equivalent). Further information and applications are available from the Fulbright Home Page, <http://sunsite.anu.edu.au/education/fulbright>, or contact the Honorary Secretary, Fulbright NSW State Selection Committee, Research and Scholarships Office, University of Sydney NSW 2006, Tel (02) 9351 3877, Email: [gab@reschols.usyd.edu.au](mailto:gab@reschols.usyd.edu.au). Applications close late September.

### **The Golda Meir Scholarship (I,L,R,C)**

- Tuition (some allowances may be paid)
- 1 year

The Golda Meir scholarships are available to graduates who are wishing to pursue a course in Jewish studies, religious studies, Israel studies or Middle East studies, who meet the relevant requirements for the Graduate Year Program at the Hebrew University's Rothberg School for Overseas Students. Application forms are available from the Australian Friends of the Hebrew University, 36 Hawthorn Road, South Caulfield VIC 3162, Tel (03) 9272 5511.

### **The Gowrie Scholarship Trust Fund (L,R)**

- \$4,000 pa
- 2 years

Applicants must be members of the Forces or children (or grandchildren or lineal descendants) of members of the Forces who were on active service during the 1939-45 War. Special consideration may be given to cases of financial hardship. Applications close October.

### **Greek Government Scholarships (L,R,C)**

- Tuition fees, monthly subsidy plus other allowances

Scholarships are available for undergraduate and postgraduate study in Greece. Applicants must be Australian citizens. Further information is available from the Embassy of Greece, 9 Turrana St, Yarralumla ACT 2600, Tel (02) 6273 3011. Applications normally close late March.

### **The Harkness Academic Fellowships (L,R,C)**

- Some allowances and tuition fees for study in the USA
- 12-21 months

The Academic Fellowships cover academic study and research. Applicants should be active in the public, business or voluntary sectors with an outstanding record of achievement. Special consideration may be given to studies in health care and related community issues. Applications are available on written request from the Harkness Fellowship, PO Box 836, Belconnen ACT 2606. Applications close early September.

### **The Harkness Mid-Career Fellowships (L,R,C)**

- Professional travel allowance
- 7-12 months

The Mid-career Fellowships are provided to support study and practical experience. Applicants should be active in the public, business or voluntary sectors with an outstanding record of achievement. Special consideration may be given to studies in health care and related community issues. Applications are available on written request from the Harkness Fellowship, PO Box 836, Belconnen ACT 2606. Applications close early September.

### **The Italian Government Scholarships (L)**

- 1 million Italian lira per month
- 2 to 24 months

Scholarships are open to Australian citizens to undertake research and language studies in Italy. Applicants must be aged under 35 years. Further information is available from the Italian Embassy, 12 Grey St, Deakin ACT 2600, Tel (02) 6273 3333, Fax (02) 6273 4223. Applications close early March.

### **The Japanese Government (Monbusho) Scholarships (L)**

Scholarships are available to Australian Citizens for study in Japan for postgraduate research or five years of undergraduate study. Applicants must be willing to study the Japanese language and receive instruction in Japanese. Further information and applications are available from Monbusho Scholarships, Embassy of Japan, 112 Empire Circuit, Yarralumla ACT 2600, Tel (02) 6272 7268, Fax (02) 6273 1848. Applications close early July.

**The Kobe Steel Postgraduate Scholarship (L,R,C)**

- Maintenance allowance of at least £7,000 sterling plus tuition fees and travelling expenses
- Up to 2 years with the possibility of extension

The scholarship is tenable at St Catherine's College, Oxford University. The scholarship will be awarded to outstanding individuals who display qualities of leadership, excellence in sport as well as academic ability. Students should have a past or future interest in Japan. Applications close mid-October.

**The Korean Government Scholarships (L)**

- Tuition fees, living allowance, travel and other allowances
- Duration of course

Scholarships are available to Australian citizens for Masters or PhD study in Korea. Preference will be given to applicants with a knowledge of the Korean language. Information and applications are available from the Embassy of the Republic of Korea, 113 Empire Circuit, Yarralumla ACT 2600, Tel (02) 6273 3044, Fax (02) 6283 4839. Applications close early May.

**The Lady Davis Fellowship Trust (I,L,R,C)**

The Lady Davis Trust provides awards for study, research, or teaching at graduate, post-doctoral or professorial levels at the Hebrew University or the Technion (Israel Institute of Technology). Information is available from the Australian Friends of the Hebrew University, 36 Hawthorn Road, South Caulfield VIC 3162, Tel (03) 9272 5511. Applications normally close in November.

**The Laporte Centenary Scholarship (L,R)**

- Airfare, living allowance, tuition fees
- 3 to 6 months

The scholarship is tenable for postgraduate research in the United Kingdom. Candidates should be undertaking a postgraduate qualification in a science-based discipline, preferably in the practical application of special chemicals. Applications are available from the Secretary, Sir Robert Menzies Centre for Australian Studies, University of London, 28 Russell Square, London, WC1B 5DS, UK, Tel +44 171 580 5876, Fax +44 171 580 9627, Email: mcintyre@sas.ac.uk. Applications close early November.

**Learn Arabic in Cairo Scholarship (I,L,R,C)**

- Course fees, AU\$70 per month living allowance
- 8 months

Scholarships are available to undertake the Arabic as a Foreign Language course in Cairo. Applications are available from the Embassy of the Republic of Egypt, 1 Darwin Avenue, Yarralumla ACT 2600, Tel (02) 6273 4437, Fax (02) 6273 4279. Applications close 1 July.

**The Lionel Murphy Postgraduate Scholarship (L,R,C)**

- \$15,000 pa for study in Australia, up to \$30,000 for study overseas
- 1 year

Applicants must be intending to undertake a postgraduate degree in Law, Science, Legal Studies or other appropriate discipline. Preference will be given to applicants who are proposing study of the law and legal system in a social context, science/law or international law. Information and application forms are available from the Lionel Murphy Foundation, GPO Box 4545, Sydney NSW 2001, Tel (02) 9223 5151, Fax (02) 9223 5267. Applications close mid-September.

**The Lloyd's Register of Shipping Chevening Scholarship (L,R,C)**

- Tuition fees, maintenance allowance, airfare
- 1 year

Two scholarships are available to graduates with proven academic merit and leadership potential, to pursue a postgraduate course at a British University. One scholarship is for a one-year MSc course in Marine Engineering/Naval Architecture, and the other is for a one-year MSc course in Environmental Sciences. Applicants must hold, or expect to complete before October, an Honours 1 or 2/1 degree. Application forms are available from the British Council, PO Box 88, Edgecliff NSW 2027, Tel (02) 9326 2022, Fax (02) 9327 4868. Applications close late October.

**The Meat and Livestock Australia (MLA) Studentships and Junior Research Fellowships (L,R,C)**

- \$15,888 pa for study in a Masters or Diploma, \$20,000 for a PhD in Australia or US\$17,500 for study overseas, plus airfares, insurance and allowances
- 2 years for Studentships (Masters or Diploma), 3 years for Junior Research Fellowships (PhD)

Applicants should be proposing to undertake research in disciplines relevant to the Australian meat and livestock industry. Applications normally close in September.

**The Menzies Scholarships (L,R,C)**

The Menzies Scholarships are intended to provide funds for Australian Citizens (aged 21 to 45) who wish to travel to Britain to undertake a course of research and to write a paper on a subject of concern and importance to the relationship between the Australian and British communities. Tertiary qualifications are preferred but the awards are not restricted to graduates or students. Information and applications are available from the Australia-Britain Society, GPO Box 551, Sydney NSW 2000, Tel (02) 223 5244. Applications normally close October.

### **Nanyang Technological University Singapore Research Scholarships (I,L,R)**

- Tuition fees plus S\$1,400-S\$1,500 per month allowance
- 2 years for a Masters, 3 years for a PhD degree

Research scholarships are available to graduates with good Honours degrees to undertake postgraduate study. Information and application forms are available from The Registrar, Nanyang Technological University. Email: gleong@ntu.edu.sg, Fax: +65 7911604.

### **The NSW Ministry for the Arts Scholarships (L)**

- \$5,000 - \$25,000 (depending on the award)

The NSW Government offers a number of scholarships and awards to writers, artists and scholars living in NSW. Further information is available from The New South Wales Ministry for the Arts, GPO Box 5341, Sydney NSW 2000, Tel (02) 9228 3533, Fax (02) 9228 4722.

### **The Oxford Nuffield Medical Fellowship (L,R)**

- Between 27,525 and 31,945 pounds sterling pa (subject to tax), plus travel expenses
- 2 years with a possible one year extension

The awards are available for research in a clinical medicine or medical science department of the University of Oxford. The appointee is required to return to Australia for at least 3 years to perform work similar to that carried out in the United Kingdom during the tenure of the Nuffield fellowship. Further information is available from Australian Academy of Science, GPO Box 783, Canberra City ACT 2601, Tel (02) 6247 5777, Fax (02) 6257 4620. Applications close mid-March.

### **Overseas Research Students Awards Scheme (United Kingdom) (I,L,R)**

- Difference in tuition fees for a 'home' and an 'overseas' student

The ORS Scheme provides partial remission of tuition fees to overseas students of outstanding merit and research potential. The awards are open to graduates who will be commencing full-time research studies at a participating institution in the United Kingdom, and who will be liable to pay tuition fees at the overseas student rate. Information and applications must be obtained directly from the Registrar or Secretary of the institution students are applying to in the United Kingdom. Applications normally close in April in the year of tenure.

### **Queen's Trust Grants (L)**

- Up to \$15,000

The Queen's Trust provides grants to Australian Citizens aged 18-28 years, for the pursuit of excellence in their chosen fields. Support is provided for projects studying the advancement of Australian youth, development of community leadership and/or other skills which will be of

benefit to Australia. Information and applications may be obtained from the Queen's Trust, Tel 1800 033 625. Applications close in late April.

### **The Rhodes Scholarship (L,R,C)**

- Tuition fees, assistance with travel expenses, up to \$17,500 allowance
- 2 years, with a possible one year extension

The scholarship is tenable for postgraduate study at Oxford University. Applicants must be aged between 19 and 25 and have an honours degree or equivalent. Selection for the scholarship will be based on academic and personal achievements and community spirit. Further information is available on the Rhodes home page <http://www/usyd.edu.au/su/rhodes>. Applications close late August.

### **The Robert Gordon Menzies Scholarship to Harvard (L,R,C)**

- Up to \$25,000 towards tuition fees, living expenses or travel costs (students who enrol in the Harvard Business School may be eligible for an additional \$12,000)
- 1 year

The scholarships are tenable at one of the Harvard University graduate schools. Applicants must be postgraduates of an Australian tertiary institution who intend to return to Australia after studies at Harvard or to represent Australia overseas. The scholarships are awarded on the basis of academic excellence and personal qualities such as leadership and public duty. The successful applicant will be expected, when circumstances permit, to repay the scholarship in later years. Applications and additional information may be obtained from the Chair, Board of Faculties, ANU, Canberra ACT 0200. Fax (02) 6248 5561, Email: lynne.colley@anu.edu.au. Applications close at the end of December.

### **Rotary Foundation Ambassadorial Scholarships (I,L)**

The Rotary Foundation offers scholarships to study or train in another country where Rotary clubs are located. Applicants must have completed at least two years of a university or college course, or have completed high school and have been employed for at least two years. Applicants must also be Citizens of a country in which there is a Rotary club. Information regarding scholarship availability, closing dates and applications should be obtained from the applicant's local Rotary club.

### **The Russian Scholarships (L,R,C)**

- Payment an allowance and medical cover

Scholarships are available to Australian citizens to undertake undergraduate or postgraduate study in journalism, law, economics, international relations or medicine in Russia. Applications normally close in May.

### **The Sir Charles Mackerras / Australia-Britain Society Music Scholarship (L)**

- £8,000 sterling

The scholarship is open to an outstanding young conductor, composer or répétiteur, aged between 21 and 30 who is likely to be an influential leader in the field of music, to undertake study in the United Kingdom or the Czech republic for at least six months. Application forms are available from the British Council, PO Box 88, Edgecliff NSW 2027, Tel (02) 9326 2022, Fax (02) 9327 4868, Email: bcsydney@sprint.com. Applications close early November.

### **The STA Travel Grant (I,L,R,C)**

- Up to \$3,000

Applicants must be undertaking study leading to a degree or diploma of the University and a member of the University Union. The grant is awarded on the basis of significant contribution to the community life of the University involving a leadership role in student affairs and the University Union and the relevance and merit of the proposed travel to the student's academic program or University Union activities. Applications close mid-April.

### **The Swedish Institute Guest Scholarships (I,L)**

- SEK 7,100 per month living allowance
- 9 months (1 academic year)

The scholarships are open to students/researchers who wish to travel to Sweden for studies/research which cannot equally well be pursued in countries other than Sweden. Applicants must establish contact with a Swedish University willing to accept the applicant for the proposed studies. Initial requests for application forms must be made in writing, including the applicant's name and address, nationality, educational background and work experience, knowledge of any languages, statement of the purpose of study/research in Sweden, and a copy of a letter of invitation from a Swedish University Department. Requests for applications should be sent to the Swedish Institute, Department for Exchanges in Education and Research, PO Box 7434, SE-103 91, Stockholm, Sweden. Email: grantinfo@si.se. Homepage: <http://www.si.se>. Requests for application forms must reach the Swedish Institute before 1 December.

### **Swiss Government Scholarships (L,R,C)**

- Tuition fees, living allowance, medical insurance and assistance with airfares
- 1 academic year

One scholarship is available for art/music and two for other disciplines, to undertake postgraduate study or attend an art school/conservatory in Switzerland. Applicants will be required to pass a language test in German or French. Applicants must be aged under 35. Applications close early October.

### **The Tokyo Metropolitan Government Foreign Student Scholarship Program (L,R,C)**

- 200,000 yen per month, tuition and travel expenses, plus allowances
- Up to 2.5 years

Scholarships are available for a Masters degree or postgraduate research at Tokyo Metropolitan University, or Tokyo Metropolitan Institute of Technology. Applicants must be aged under 35 years, be Australian Citizens from New South Wales, and be graduates of a university in NSW. Applications close early April.

### **The Turkish Government Language & Culture and Higher Education Scholarships (I,L)**

Scholarships are available to high school graduates to undertake study at a Turkish University. Students may be required to undertake a one year Turkish language course before commencement of the degree. The scholarships pay a monthly allowance for the duration of the course. Scholarships are also available to university graduates who would like to attend Turkish Language and Culture Summer Courses conducted by Turkish Studies Centre. Further information is available from the Embassy of the Republic of Turkey, 60 Mugga Way, Red Hill ACT 2603. Applications close 30 May for Language and Culture Scholarships, and 15 July for Higher Education Scholarships.

### **University College London Scholarships**

The University College London offers various scholarships to students from overseas, who hold an offer of admission to a full-time programme of study at UCL. Applicants must be self-financing and liable to pay tuition fees at the rate for overseas students. Information and applications are available from the International Office, University College London, Gower St, London WC1E 6BT, UK, Tel +44 171 380 7708, Fax +44 171 380 7380, Email: [international@ucl.ac.uk](mailto:international@ucl.ac.uk).

### **Yokoyama Scholarship Awards (L,R,C)**

Assistance may be available for undergraduate and postgraduate study at a Japanese University.

Information is available from Mr Masao Iwashita, Secretary-General, Yokoyama Scholarship Foundation, 6F Shiozaki Building, 2-7-1 Hirakawacho, Chiyoda-Ku, Tokyo 102 Japan, Tel (813) 3238 2913, Fax (813) 5275 1677.



The following information summarises prizes awarded by the University. Prizes are grouped by level as follows: Undergraduate, common Undergraduate/Postgraduate, Postgraduate. Within these groups prizes are listed under the faculty, school or department in which they are awarded. Prizes which are not specific to any school are listed under General. Law prizes are awarded only for students enrolled in the LLB or Jurisprudence courses.

Information regarding the establishment of new prizes may be obtained from the Student Information and Systems Office.

Prize information is normally provided in the following format:

- Prize value
- Conditions

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## Undergraduate Prizes

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### The University Of New South Wales (General Category for Prizes)

#### The Heinz Harant Challenge Prize

- \$1000 (bi-annual prize)

For an original piece of assessable work submitted in the course of completing a General Education subject

#### The Sydney Technical College Union Award

- \$400 and a bronze medal

For leadership in student affairs combined with marked academic proficiency by a graduand

#### The UNSW Human Rights Essay Prize

- \$400

For the best research essay on a Human Rights topic by a student enrolled at the University of New South Wales proceeding to a Bachelor degree

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### Faculty of Medicine

#### The Australian and New Zealand College of Anaesthetists Prize

- \$500

For the best performance by a final year student in the anaesthesia module of the clinical curriculum in the Bachelor of Medicine Bachelor of Surgery degree course

#### The Australian College of Occupational Medicine Prize

- \$200

For 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**

- \$300

For the best report based on the period of attachment in general practice

### **The Combined Teaching Hospitals Senior Staff Prize**

- \$500

For the best performance in the clinical years of course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### **The Foundation Year Graduates Medal**

- A Silver medal

For leadership and fellowship as a medical undergraduate by a student who has completed the final year of the medical course

### **The Georgouras Prize in Dermatology**

- \$100

For the best performance in a special written examination in MFAC5001 Geriatrics/General Practice/Subspecialties specialising in Dermatology in Year 5 of the Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery course

### **The Graduation Prize in Surgery**

- \$100

For the best performance in the surgery components of MDSG4001 Integrated Clinical and Community Studies and MDSG6001 Integrated Clinical Studies 6 in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### **The Royal Australian College of Ophthalmologists Prize**

- \$250 and a medal

For the best essay in an ophthalmological subject in Year 5 of course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or Year 6 of course 3821 Bachelor of Science Bachelor of Medicine Bachelor of

Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### **The Wallace Wurth Prize**

- \$200

For the best overall performance in a graduating year in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

## **School of Anatomy**

### **The Dami Atapattu Prize**

- \$100

For the best performance in Year 1 Anatomy (ANAT1006) in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### **The Jane Skillen Prize in Anatomy**

- \$250

For the highest average mark in any three Year 3 Anatomy subjects by a graduand in the Bachelor of Science degree course with a major in Anatomy

### **The Maurice (Toby) Arnold Prize**

- \$100

For the highest mark in Anatomy (including all sub-disciplines) in Year 2 of course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### **The Paxinos & Watson Prize**

- \$200

For the best performance in ANAT3411 Neuroanatomy 1 in the Bachelor of Science degree course

### **The Prize in Practical Anatomy**

- \$200

For the best performance in Practical Anatomy (including Radiological Anatomy) in Year 2 of course 3801 Bachelor

of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### **The Winifred Dickes Rost Prize**

- \$100

For outstanding merit in Anatomy in the final year of the Bachelor of Science degree course

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### **Schools of Anatomy, Physiology and Pharmacology and Psychology**

### **The Istvan Tork Prize in Neuroscience**

- \$100

For the best performance by a Year 4 Honours student who completed a thesis in the field of Neuroscience in the Schools of Psychology or Anatomy or Physiology and Pharmacology

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### **School of Community Medicine**

### **The 2/5 Australian General Hospital Association Prize**

- \$200 and a plaque

For the best performance in Community Medicine in Year 5 of course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery, or Year 6 of course 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### **The Department of Health, Rural General Practice Prize**

- \$500

For the best essay written in the area of rural general practice by a Year 5 student in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or a Year 6 student in course 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### **The NSW Department of Health Prize**

- \$500

For the best performance in the Community Medicine component of MDSG4001 Integrated Clinical and Community Studies in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### **The United Medical Protection Prize in Health Law and Ethics**

- \$500

For the best performance in the ethics section of PSYC2101 Human Behaviour (40%) and CMED3001 Medical Ethics and Health Law (60%)

### **The W G Telleson Memorial Prize**

- \$150

For the best performance in MDSG3001 Clinical Studies in Year 3 of course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or Year 4 of course 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

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### **School of Obstetrics and Gynaecology**

### **The Gordon Lowe Memorial Prize**

- \$150

For the best performance in OBST5001 Obstetrics and Gynaecology in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery, 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### **The Royal Hospital for Women Senior Medical Staff Prize**

- \$100

For the best performance in OBST5001 Obstetrics and Gynaecology at the Royal Hospital for Women in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery, 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

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## School of Paediatrics

### The Karitane Mothercraft Society Prize

- \$150

For the best essay written in the topic area of "Mother/child Relationships Relevant to Health Care" in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery, 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3841 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### The Margaret Dance Memorial Award

- \$500

For the best performance in Paediatric studies by a student who undertakes elective study in Paediatrics within the teaching hospitals of the University

### The Paediatrics Staff Prize

- \$200

For an outstanding performance in Paediatrics in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery, 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### The Richard Johnson Memorial Prize in Paediatrics

- \$500

For the best performance in the clinical component of PAED5101 Paediatrics in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery, 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

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## School of Pathology

### The G R Cameron Memorial Prize

- \$200

For the highest aggregate mark in the Pathology component of PATH3101 Pathology in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery, 3821 Bachelor of Science Bachelor of Medicine Bachelor of

Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### The Hampson Sugerman Prize for Experimental Pathology

- \$1000

For the most proficient research work done in Basic or Applied Pathology in course 3831 Bachelor of Science (Medicine) Honours

### The Hampson Sugerman Prize in Clinical Pathology

- \$1000

For the best performance in a combination of PATH3101 Pathology and MDSG4001 Integrated Clinical and Community Studies by a student in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### The Macquarie Prize in Diagnostic Pathology

- \$500 and a medal

For the best performance in the Diagnostic Pathology component of PATH3101 Pathology in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery, 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

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## School of Physiology and Pharmacology

### The D I McCloskey Prize for Physiology/ Pharmacology Honours

- \$100

For the best performance in PHPH4218 Physiology 4 Honours or PHPH4258 Pharmacology Honours in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery in the Faculty of Medicine or course 3970 Bachelor of Science in the Board of Studies in Science and Mathematics

### **The D N Wade Prize for Medical Pharmacology**

- \$100

For the best performance in PHPH3055 Medical Pharmacology in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery, 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### **The Doerenkamp-Zbinden Prize in Pharmacology**

- \$100

For the highest aggregate in PHPH3152 Pharmacology in the Bachelor of Science degree course

### **The F C Courtice Prize**

- \$100

For the best performance in PHPH2018 Medical Physiology 1 in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### **The F C Courtice Prize**

- \$100

For the best overall performance in Level III Physiology in a Bachelor degree course

### **The School of Physiology and Pharmacology Staff Prize For Medical Biology**

- \$100

For the best performance in PHPH1004 Biology for Medical Students in Year 1 of course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

### **The School of Physiology and Pharmacology Staff Prize for Physiology 1 or Principles of Physiology**

- \$100

For the best performance in PHPH2112 Physiology 1 or PHPH2122 Principles of Physiology in course 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery

### **The W E Glover Prize For Physiology**

- \$100

For the best performance in PHPH3014 Medical Physiology 2 in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery, 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

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## **School of Psychiatry**

### **The David Jeremy Keen Memorial Prize**

- \$50

For the best performance in PSCY2101 Human Behaviour in course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or in PSCY2201 Human Behaviour in course 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery

### **The John Kerridge Memorial Prize**

- \$100

For the best performance in Psychiatry in the final year of course 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or 3821 Bachelor of Science Bachelor of Medicine Bachelor of Surgery or 3840 Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery

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## Undergraduate and Postgraduate Prizes

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### Faculty of Medicine

#### The Drug and Alcohol Foundation Prize

- \$250

For the best essay or article on Alcoholism and/or Drug Abuse

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## Postgraduate Prizes

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### School of Community Medicine

#### The John Hirshman International Health Prize

- \$200

For the best performance in CMED9605 Health in Developing Countries in the Master of Community Health or Master of Public Health degree course

#### The John Hirshman Prize in Community Health

- \$200

For the best overall performance in the Master of Community Health degree course

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### School of Health Services Management

#### The 2/5 Australian General Hospital Association Prize

- \$200 and a plaque

For the best overall performance in the Master of Health Administration or Master of Health Planning degree course

#### The 2/5 Australian General Hospital Association Prize in Health Services Management (Nursing)

- \$200 and a plaque

For general proficiency throughout the Master of Health Administration or Master of Health Planning degree course by a trained nurse registered in Australia

#### The Australian College of Health Service Executives Prize

- \$200

For the best combined performance in the two core Management subjects in the Master of Health Administration degree course

#### The Hunt and Hunt Health Law I Prize

- \$200

For the best performance in HEAL9331 Health Related Law and Jurisprudence by an internal or external student studying in Australia, in the Master of Health Planning, Master of Health Administration or Master of Public Health degree course

#### The Leanne Miller Memorial Prize

- \$200

For the best overall performance by an external student in the Master of Health Administration or Master of Health Planning degree course

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## **School of Obstetrics and Gynaecology**

### **The Pharmacia & Upjohn Prize in Obstetrics and Gynaecology**

- \$125

For the best performance in the Obstetrics and Gynaecology term by a student at Liverpool Hospital

## Notes



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## Notes

# The University of New South Wales • Kensington Campus

## Theatres

Applied Science Theatre F11  
 Athol Lykke Theatre C27  
 Biomedical Theatres E27  
 Central Lecture Block E19  
 Chemistry Theatres  
 (*Dwyer, Mellor, Murphy, Nyholm, Smith*) E12  
 Clancy Auditorium C24  
 Classroom Block (*Western Grounds*) H3  
 Fig Tree Theatre B14  
 Heffron Theatres E13  
 Io Myers Studio D9  
 Keith Burrows Theatre J14  
 MacAuley Theatre E15  
 Mathews Theatres D23  
 Parade Theatre E3  
 Physics Theatre K14  
 Quadrangle Theatre E15  
 Rex Vowels Theatre F17  
 Science Theatre F13  
 Webster Theatres G15

## Buildings

AGSM G27  
 Applied Science F10  
 Arcade D24  
 Architecture H14  
 Barker Apartments N13  
 Barker Street Gatehouse, Gate 14 N14  
 Basser College (*Kensington*) C18  
 Baxter College D14  
 Biosciences D26  
 Central Store B13  
 Chancellery C22  
 Dalton (*Chemistry*) F12  
 Goldstein College (*Kensington*) D16  
 Golf House A27  
 Gymnasium B5  
 High Street Gatehouse, Gate 9 B24  
 Heffron, Robert (*Chemistry*) E12  
 International House C6  
 John Goodsell (*Commerce and Economics*) F20  
 Kensington Colleges (*Office*) C17  
 Library (*University*) E21  
 Link B6  
 Main K15  
 Maintenance Workshop and Central Store B13  
 Mathews F23  
 Menzies Library E21  
 Morven Brown (*Arts*) C20  
 New College L6

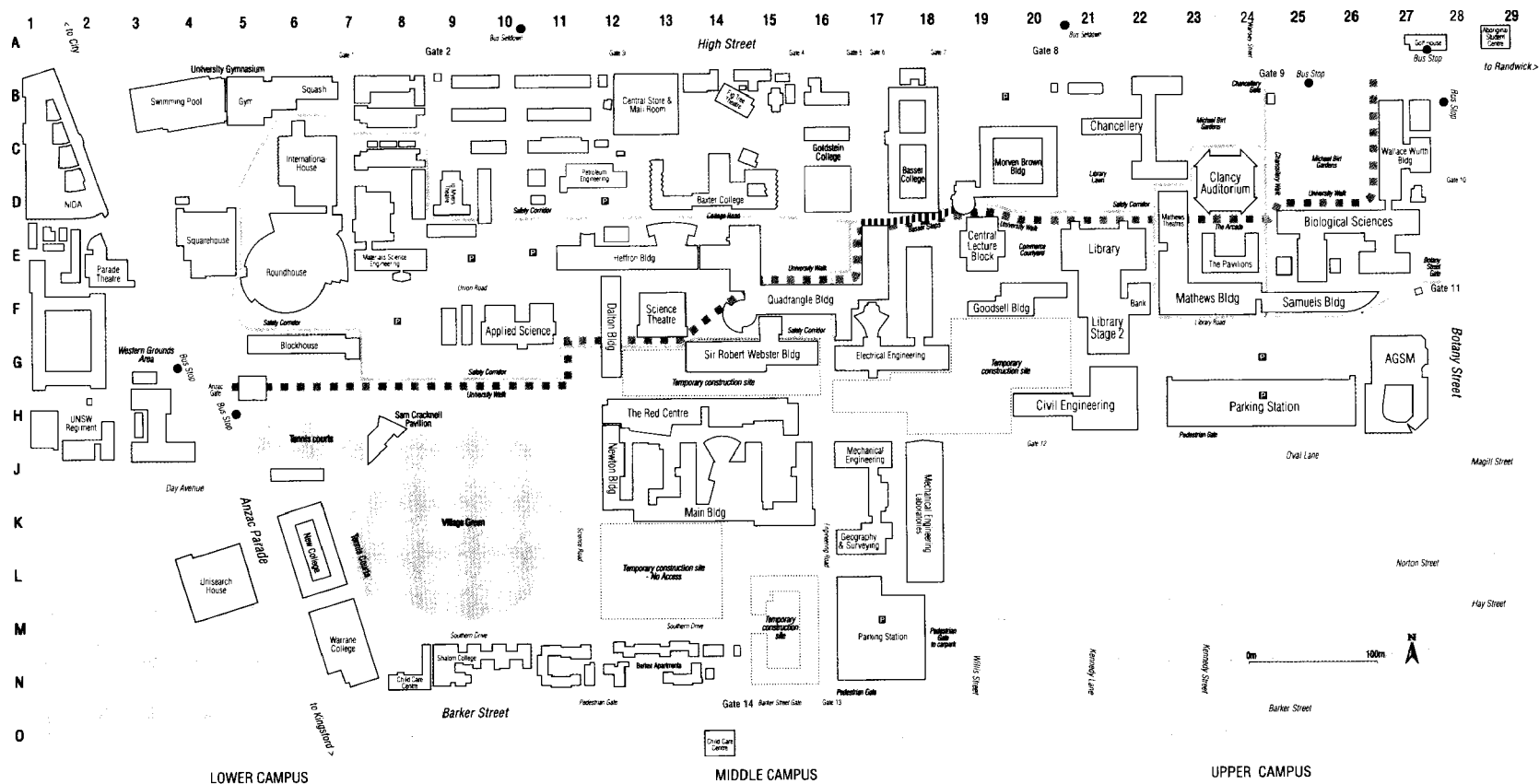
Newton J12  
 NIDA D2  
 Parking Station H25  
 Parking Station N18  
 Pavilions E24  
 Philip Baxter College (*Kensington*) D14  
 Quadrangle E15  
 Red Centre H13  
 Sam Cracknell Pavilion H8  
 Samuels Building F25  
 Shalom College N9  
 Webster, Sir Robert G14  
 Unisearch House L5  
 University 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 Resource and Research Centre E20  
 Aboriginal Student Centre A29  
 Accommodation (*Housing Office*) E17  
 Accounting E15  
 Admissions C22  
 Alumni C22  
 Anatomy C27  
 Applied Bioscience D26  
 Applied Economic Research Centre F20  
 Archives, University E21  
 Arts and Social Sciences (*Faculty Office*) C20  
 Asia-Australia Institute: 45 Beach Street, Coogee  
 Audio Visual Unit F20  
 Australian Graduate School of Management G27  
 Banking and Finance E15  
 Biochemistry and Molecular Genetics D26  
 Biological Science D26  
 Biomedical Library F23  
 Biotechnology F25  
 Built Environment (*Faculty Office*) H14  
 Business Law and Taxation F20  
 Campus Services C22  
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The University of New South Wales • Kensington Campus

## UNSW

This Handbook has been specifically designed as a source of detailed reference information for first year, re-enrolling undergraduate and postgraduate students.

Separate Handbooks are published for:

Arts and Social Sciences  
Built Environment  
College of Fine Arts  
Commerce and Economics  
Engineering  
Law  
Medicine  
Science  
Australian Graduate School  
of Management (AGSM)  
Australian Taxation Studies Program (ATAX)  
University College,  
Australian Defence Force Academy (ADFA)  
General Education.

For further information about the University – its organisation; staff members; description of disciplines; scholarships; prizes and so on, consult the University Calendar (Summary Volume). For further information on student matters, consult the UNSW Student Guide.