

THE UNIVERSITY OF  
NEW SOUTH WALES



*Faculty of  
Medicine*

# HANDBOOK

# 2001





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NEW SOUTH WALES



*Faculty of  
Medicine*

# HANDBOOK

# 2001

Courses, programs and any arrangements for programs 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 11 December 2000, 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.

The Faculty also provides a diverse array of opportunities for science students as well as postgraduate students. Postgraduate programs are offered by both coursework and research. There are many excellent opportunities in these areas throughout the Faculty.

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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## Units of Credit

Please note that all courses are measured in whole units of credit. The normal workload expectations are 25 - 30 hours per semester for each unit of credit, including class contact hours, preparation and time spent on all assessable work. A full time enrolment for one year is defined as 48 units of credit (24 per semester). A course has the same unit of credit value and generates the same load for HECS and fees irrespective of the program or stage in which it is taken.



# 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.

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

	2001	2002
<b>Session 1</b>		
(14 weeks)	26 February to 12 April 23 April to 8 June	4 March to 27 March 8 April to 14 June
<b>Mid-session recess</b>	13 April to 22 April	28 March to 7 April
Study period	9 June to 14 June	15 June to 20 June
Examinations	15 June to 3 July	21 June to 9 July
<b>Mid-year recess</b>	4 July to 22 July	10 July to 28 July
<b>Session 2</b>		
(14 weeks)	23 July to 21 September 1 October to 2 November	29 July to 27 September 8 October to 8 November
<b>Mid-session recess</b>	22 September to 30 September	28 September to 7 October
Study period	3 November to 8 November	9 November to 14 November
Examinations	9 November to 27 November	15 November to 3 December

## Faculty of Medicine

	2001	2002
<b>Medicine I, II, III</b>	As for other faculties	As for other faculties
<b>Medicine IV</b>		
<b>Term 1</b>		
Campus Program 1	22 January to 25 January	28 January to 1 February
Hospital Program	29 January to 11 March	4 February to 17 March
<b>Term 2</b>	12 March to 22 April	18 March to 28 April
<b>Recess</b>	23 April to 29 April	29 April to May
<b>Term 3</b>	30 April to 10 June	6 May to 16 June
<b>Term 4</b>		
<i>Hospital Program</i>	12 June to 1 July	18 June to 7 July
<i>Campus Program</i>	2 July to 13 July	8 July to 19 July
<i>Hospital Program</i>	16 July to 5 August	22 July to 11 August
<b>Recess</b>	6 August to 12 August	12 August to 18 August
<b>Term 5</b>	13 August to 23 September	19 August to 29 September
<b>Term 6</b>	24 September to 4 November	30 September to 10 November



**Medicine V**

**Term 1**

*Campus Program*

*Hospital Program*

**Recess**

**Term 2**

**Recess**

**Term 3**

**Recess**

**Term 4**

11 January to 12 January

15 January to 18 March

19 March to 25 March

26 March to 27 May

28 May to 3 June

4 June to 5 August

6 August to 12 August

13 August to 14 October

17 January to 18 January

21 January to 24 March

25 March to 1 April

2 April to 2 June

3 June to 10 June

11 June to 11 August

12 August to 18 August

19 August to 20 October

**Medicine VI**

**Term 1**

**Term 2**

**Recess**

**Term 3**

**Term 4**

*Hospital Program*

*Campus Program 2*

**Recess**

**Term 5**

**Term 6**

Elective - variable dates

19 February to 1 April

2 April to 8 April

9 April to 20 May

21 May to 1 July

2 July to 13 July

14 July to 22 July

23 July to 2 September

3 September to 14 October

Elective - variable dates

25 February to 7 April

8 April to 14 April

15 April to 26 May

27 May to 7 July

8 July to 19 July

20 July to 28 July

29 July to 8 September

9 September to 20 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 Greater Murray, 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

**Deputy Dean**

Professor Richard Henry

**Associate Dean (Curriculum and Teaching)**

Professor Denis Wakefield

**Associate Dean (Research)**

Professor Carolyn Geczy

**Faculty Co-ordinator of Postgraduate Studies**

Associate Professor Rakesh Kamal Kumar

**Office of the Dean****Director - Academic Projects**

Chrissie Verevis, BA *CSU Sacramento* LLB *UNSW*

**Director – Operations**

Derek Raymond Wright

**Development Officer**

Jennifer Marchionni, CFRE

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Gordon Lester Rees JP

**Administrative Assistants**

David Boothey

Claudia Alejandra Calero

Christine Mary Hewitt

Carol Louise Kendall

**Finance Unit****Budget and Finance Manager**

Timothy Harnett, FCCA

**Senior Accountants**

Russell Edwards, BBus *RMIT* ASA

Penny Mack, BBus GradDipInfoTechBus, CPA, FCCA

**Senior Assistant Accountants**

Zac Liu, BSc(Econ) *Xiamen*, MBA, PhD *Wales*

**Purchasing Officer**

David Warwick Lyon, BA *UNSW*

## Computing Support Unit

### Manager

James Leeper, BA, MBIomedE *UNSW*

### Web Coordinator

Peter Moloney, BA *Syd*, MIM *UNSW*

### Computer Support Officers

Sami Korell

Karen Johnson, BSc *UNSW*

Kinh Ho

Ross Beck, BSc *UNSW*

Fasihuddin Khan, MSc *Aligarh Muslim University, India*

Houssen Hellany, BSc *University of Lebanon*

## Curriculum Unit

### Director & Senior Lecturer

Peter Harris MB BS *UNSW FRACGP*

### Senior Lecturers

Patricia Youngblood BA Med PhD *UNC MA Columbia U.*

Susan Toohey BA *Qld.*, MLS, MA *Maryland, USA*

Chris Hughes BSc, EdD. *Monash, BA Syd.*, M, Cog,Sci *UNSW*

### Lecturers

Leah Bloomfield BSc *Syd.*, GDipHEd, MPH *UNSW*

Eilean Watson RN, BSc, MHPed *UNSW*

### Administrative Officer

Jacqueline Miller BA *Calc.*

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## School of Anatomy

### Head of School

Professor DJ Tracey

---

## Kensington Campus

### Professors

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

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

### Associate Professors

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

### Senior Lecturers

Pascal Luc Carrive, PhD *Syd*

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

+Glenda Margaret Halliday, BSc PhD *UNSW*

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

Elizabeth Jane Tancred, BSc PhD *UNSW*

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

### Lecturers

☉Jennifer Harasty, BAppSc *Cumb*, MAppSc PhD *Syd*

☉Antony Jon Harding, BSc *Adel*, PhD *Syd*

Mark Anthony Hill, BSc PhD *Syd*

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

+Jason David Wenderoth, BSc, MB BS

### Professional Officers

Patrick John de Permentier, BSc MSc *UNSW*

Paul Halasz, MSc *Bud*

### Senior Technical Officer

Collin Boon-Chye Yeo, AA/ST

### Manager, Dissecting Room

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

### Technical Officers

Jennifer Flux

John Andrew Hughes

Moyo Seeto

### Honorary Visiting Fellows

Saw Kin Loo, MB BS *Malaya*, PhD *Sing.*

Bruce David Reading, MB BS MMed *Syd*

### Administrative Assistant

Lorraine Brooks

---

## Clinical School – Greater Murray

### Director

Professor Mohamed Khadra, B Med Grad Dip Comp Med PhD FRACS

### Associate Professors

Joachim Sturmberg (Achim), MB BS, DipObst, *RACOG MFM Monash PhD (Lubeck)* FRACGP

### Senior Lecturers

Alexander (Sandy) Reid, MB BS *Lon* FRACGP

Peter Vine, MB BS *Qld* FRACP

Geraldine Duncan, MB BS, DipObsRCOG FRACGP

Graeme Richardson, MB BS FRACS, FRCS (*England*)

Ian Smee, MB BS *Syd* FRACP DDU

### Clinical Coordinator – Albury

John Douglas, MB BS, MRCCP *UK*, FRACP

### Clinical Coordinator – Wagga Wagga

John Preddy, BM BS MRCP *UK* FRACP

### Clinical Coordinator – Griffith

Maxwell Hopp, MB BCh DCH FCP FCRACP

### Administrative Officer – Albury

Kathryn Martin



**Administrative Assistant – Albury**  
Nanette Sweeney

**School Secretary – Wagga Wagga**  
Belinda Newman

**Administrative Officer – Wagga Wagga**  
Jennifer Kohlhagen

**Administrative Assistant – Wagga Wagga**  
Ros Bradley

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

**Clinical Associate Dean**  
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**Clinical Coordinator**  
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Anne Aylmer

## Department of Medicine

**Head of Department and Professor**  
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**Professors**  
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+\*Beng Hock Chong, MB BS *Malaysia*, PhD *Syd*, MRCP, FRACP, FRCPA, FRCP (*Glasgow*)  
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+Pamela Joan Russell, MSc PhD *Melb*, DipEd *Canberra CAE*  
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+James Gordon Colebatch, BSc, MB BS PhD *UNSW*, FRACP  
+Michael Leonard Friedlander, MB ChB *Birm*, MRCP, FRACP  
+\*Anthony Gerard Johnson, MB BS MD *UNSW*, MPH *Qld*, FRACP  
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Hugh Patrick McNeil, BMedSc MB BS *Tas*, Grad.Dip.H.Ed, PhD *UNSW*, FRACP  
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+Bruce Allen Pussell, MB BS *UNSW*, PhD *Lond*, FRACP  
+Monica Anne Rossleigh, MB BS *UNSW*, MD, FRACP  
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+\*Daniel Kam Yin Chan, MB BS *UNSW*, FRACP, FHKCP  
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+David Goldstein, MB BS *Monash*, MRCP(UK), FRACP  
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+\*Philip David Jones, MB BS *Syd*, PhD *ANU*, MHed *UNSW*, FRACP  
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+Malcolm Reynolds Robertson, MB BS *Syd*, FRACP  
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+Robert Smee MB BS *UNSW*, FRANZCR  
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+Warren Frederick Walsh, MB BS *Syd*, FRACP, FACCfernan

**Lecturers**  
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\*Arthur Shane Brown, PhD *UNSW*  
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+\*Clare Alice Cunningham, OAM, MB BS *Syd*, MRCP *UK*, DCH  
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+Virginia Furner, MB BS *UNSW*  
+\*Peter Neil Gonski, BMedSc MB BS *UNSW*, FRACP  
+Walter Haindl, MB BS *UNSW*, FRACP  
+Jan P Lehm, MD *Denmark*, FRAZCA  
+Craig Ronald Lewis, MB BS *UNSW*, FRACP  
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+Christine Shearman, Bmed *N'cle (NSW)*, FRANZCR  
+Rebecca Strutt, BSc MB BS, FACHPM  
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**Technical Officer**  
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David Emil Leon Wilcken, MD *Syd*, FRCPs, FRACP

**Administrative Officer**  
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**Administrative Assistant**  
Gina Tomasiello

## Department of Surgery

### Head of Department and Professor

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### Professor of Ophthalmology

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

Vacant

### Associate Professors

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 +Richard John Millard, MB BS Lond, FRCS Eng, FRACS  
 +Margaret Anne Rose, BVSc Syd, PhD UNSW  
 +David Harry Sonabend, MB BS Syd, FRACS  
 William Robert Walsh, BA Bucknell, PhD New Jersey

### Senior Lecturers

Graham Leonard Newstead, MB BS Syd, FRCS, FRACS, FACS  
 +Marcus A Stoodley, BMedSc MB BS Qld, PhD Adel, FRACS  
 +Philip Gregory Truskett, MB BS Syd, FRACS  
 +Jia-Lin Yang, MB BS China, PhD MSc Beijing  
 Bryan Wheaton Yeo, MB BS Syd, FRCS, FRACS

### Lecturer

+Michael Peter Hennessy, BMedSc MB BS Qld, MBIomedE UNSW, FRACO  
 +Yan Yu, MB BS China, PhD Benne (Switzerland)

### Technical Officer

David Wesley Tuck

### Administrative Assistants

Renee Claire Hannan  
 Olive Yanelli

## Clinical School – St George Hospital

### Clinical Associate Dean

Associate Professor DJ de Carle

### Administrative Officer

Justin Peter Joynes AdvCert(Public Admin) S/T

## Department of Medicine

### Head of Department

David John de Carle, MB BS UNSW, FRACP

### Professors

+Mark Ashley Brown, MB BS MD UNSW, FRACP  
 +John Patrick Edmonds, MB BS Syd, FRACP  
 +Laurence Guy Howes, MB BS PhD Melb, FRACP  
 +John Henry Kearsley, MB BS Syd, PhD Qld, FRANZCR, FRACP  
 +Steven Anthony Krlis, MB BS UNSW, PhD Syd, FRACP

### Associate Professors

+Sydney Patrick Butler, BSc MB BS MA UNSW, FRACP  
 +Ian James Cook, MB BS MD Syd, FRACP  
 David John de Carle, MB BS UNSW, FRACP  
 Terrence Diamond, ECFMG USA MBBCh, Dip Aviation Medicine RSA, FRACP, AMC  
 +Arumugam Manoharan, MB BS MD Madras, FRACP, FRCPA

### Senior Lecturers

+Peter Cistulli, MB BS UNSW, PhD Syd, FRACP  
 +Raymond Allan Clarke, BSc PhD UNSW  
 Michael Carl Grimm, MB BS Syd, PhD ANU FRACP  
 +Mark Hersch, BSc Med MB ChB W'rand, PhD Syd, FRACP  
 +John James Kelly, MB BS MD UNSW, FRACP  
 +Bruce Willfred Kirkham, BA MD ChB Otago, MRCP, FRACP  
 +Yiu Lam Kwan, MB BS HK, FRACP, FRCPA  
 +Richard Hamilton Lawrence, MB BS PhD Syd, FRACP  
 +Jeremy McNulty, 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  
 +Jamie Case, BAppSc CSturt, BSc PhD UNSW  
 +Paul Linus De Souza, BScMed MB BS Syd, FRACP  
 +David John Gorman, BSc MB BS Syd, FRACP  
 +Pamela Konecny, BMedSc MB BS Tas, DTM&H Lond, FRACP  
 Matthew Links, MB BS FRACP  
 Jodie Lynch, BSc MB BS FRACP  
 George Mangos, MB BS MD 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  
 +David Rees, MB BS, FRACP

### Administrative Officer

Margaret Ann Micallef, BSocSc UNSW

### Snr Technical Officer

Steven Turner, BAppSc CSU, BSc UNSW

## 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, FRANZCR, FRACP

## Department of Anaesthetics, Emergency Medicine and Intensive Care

### Head of Department and Professor

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

### Associate Professor

+David Bihari, MBBS, FRACP

### Senior Lecturers

+Michael Heywood Bennett, MB BS UNSW, DA Lond, FFARCSI Dublin  
 +Stephen Gatt, OAM, MD Malta FRCP FANZCA

### Lecturers

+John Awad, MB BS Syd, FANZCA FFICANZCA  
 +Kenneth Abraham, MB BS Syd, FACEM EMST  
 +Michael George Beaudoin, MB BS Syd, FFARACS  
 +Andrew Belessis, MB BS UNSW, FANZCA  
 +David John McGregor Butchers, BSc MB ChB Edin, FRCA FFICANZCA  
 +Betty Shuk Han Chan, MB BS UNSW, PhD Syd  
 +Susan Rochelle Herzberg, MB BS UNSW  
 +Peter Ralph Isert, MB BS UNSW, FFARACS  
 +Jan Peters Lehm, MD, FANZCA  
 +Edward Loughman, MB BS UNSW, FFARACS  
 +David James Sandeman, BSc(Med) MB BS UNSW, FANZCA  
 +Yahya Shehabi, MD Jordan FANZCA FFICANZCA  
 +Barbara Elise Trytko, BM BS Flin, FFICANZCA  
 +Robert John Turner, MB BS UNSW FANZCA  
 +Bruce Gary Way, BMed Sc MB BS Syd, FACEM  
 +Su-Jen Yap, MB BS Syd, FANZCA

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

+Michael Drury Poole, MB BS MD *Syd*, FRCS, FRACS

#### Associate Professors

+George Anthony Calvert Murrell, MB BS *Adel*, DPhil *Oxf*

•Judie Walton BA *Ill*, PhD *ANU*

#### Senior Lecturers

Thomas Gruenberger, MD *Vienna*

Paul Joseph Cozzi, MB BS MS *Urol*, FRACS

•Min-Xia Wang, MB BS MD *Melb*

#### Lecturers

•Elaine Bolton, BSc *NESCOT*, PhD *Syd*

+Christopher Henry Fox, MBChB *Otago*, FRANZCR

+Derek William Glenn, MB BS *Syd*, FRANZCR

+Peter Henry Graham, MB BS *UNSW*, FRANZCR

+John Sweeney Lim, MB BS *UNSW* FRANZCR

+Ian Stafford Lovett, MB BS *Syd*, MRCP, FRANZCR

+Amanda Palmer, MB BS *UNSW*

+Julie Denise Stevenson, MB BS *Syd*, FRANZCR

#### Technical Officer

Javed Akhter

#### Department Manager

Ceri Walker

#### Administrative Assistant

Jenny Fleming

## Department of Anaesthetics, Emergency Medicine and Intensive Care

#### Head of Department and Professor

+David Brunton Gibb, BSc MB BS *Syd*, DOBstRCOG *Lond*,

FRCAnaes, FANZCA

#### Senior Lecturer

+Adam Chan MB BS *UNSW* FACEM

+Theresa Jacques, MB BS *Monash*, FANZCA, FFICANZCA

+John Myburgh, MB BCh, DA SA, FANZCA, FFICANZCA

+George Andrew Skowronski, MB BS *Monash*, MRCP UK, FRACP

#### Lecturers

+Andrew Stephen Armstrong, MB BS *UNSW*, FANZCA

+Margaret Ruth Bailey, MB BS *Flin* FANZCA

+Paul Bertolino, BMed *N'cle(NSW)*, FANZCA

+Neil Thomas Bradburn MB BS *UNSW*, FFARACS, FANZCA

+Peter James Grant, BSc MB BS *UNSW*, FACEM

+Anna Holdgate, MB BS *Syd*, FACEM

+Gregory John Hollis BSc MB BS(Hons) *UNSW*, FACEM

+Sean Lawrence Kelly, MB(*N'cle*), FACEM

+Michael O'Leary, MB BS, FRCAnaes, FFICANZCA

+Lewis Macken, MB BS *Syd*, FACEM

+Ronald John Manning, MB BS, BMedSc *UNSW*, FACEM

+John Merchant, MB BS *UNSW*, FACEM

+Kate J Porges MB BS *Syd*

+John Robert Raftos, MB BS *Syd*, FACEM

+Gary David Tall, MB BS *Syd*, FACEM

+Sharon Tivey MB BS *Syd*

+Anica Vasic MB BS *Syd*, FANZCA

## Clinical School – St Vincent's Hospital

#### Clinical Associate Dean

Professor Terence Campbell

#### Administrative Officer

Monica Mary Adams

## Department of Medicine

#### Head of Department and Professor

Terence John Campbell, BSc MB BS, *UNSW*, DPhil *Oxf*, FRACP

#### Professors

+Bruce James Brew, MB BS *Syd*, FRACP

+Lesley Veronica Campbell, MB BS *Syd*, MD *Wash*, MD *UNSW*, FRACP, MRCP

+Donald John Chisholm, AO, MB BS *Syd*, FRACP

+David Albert Cooper, BSc MB BS *Syd*, MD DSc *UNSW*, FRACP, FRCPA

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

+John Allan Eisman, AO, BSc MB BS *Syd*, PhD *Melb*, FRACP

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

Richard Paul Harvey, BSc PhD *Adel*,

+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 *ANU*, FAA

•Keith Kendall Stanley, BA MA PhD *Cant*.

+Robert Lyndsay Sutherland, MAgSc *Cant*, PhD *ANU*

#### Professor of Clinical Immunology

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

#### Associate Professors

+David Hamilton Bryant, MB BS MD *Syd*, FRACP

+Andrew David Carr, MB BS MD *UNSW*

+Milton Laurence Cohen, MB BS, MD *Syd*, FRACP, FAFRM

+Bruce David Doust, BSc MB BS *Syd*, FRANZCR, DDR, DDU, DABR, DABNM

+Michael Feneley, MB BS MD *UNSW*, FRACP

+Allan Robert Glanville, MB BS MD *Syd*, 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*, FACP

+Edward William Kraegen, BSc PhD *UNSW* MACPSM

•Russell Ian Ludowyke, BSc *LaT*, PhD *CNA*

+Peter Simon MacDonald, MB BS PhD *Melb*, FRACP

+Andrea Mant, MB BS *Syd*, MD *UNSW* MA *ANU* FRACGP

+David William Marshall Muller, MB BS MD *Melb*, FRACP, FACC

+\*Nicholas Anthony Pocock, MB BS *Syd*, MD *UNSW*, FRACP

•Peter Robert Schofield, BScAg *Syd*, PhD *ANU*

William Arthur Sewell, MB BS BSc *Syd*, PhD *Melb*, FRCPA

Leon Abraham Simons, BSc MB BS MD *Syd*, FRCP, FRACP

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

•Kenneth Williams, BSc PhD *UNSW*

#### Senior Lecturers

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

+Jacqueline Ruth Center, MB BS *Syd*, MSc *Harv.*, PhD *UNSW*, FRACP

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

•Gregory John Cooney, BSc PhD *Syd*

•Roger John Daly, BSc PhD *Liv*

+Paul Darveniza, MB BS MD *Syd*, FRACP

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

+Peter Jan Duval, MB BS *Syd*, FRANZCR, 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

+Malcolm L Handel, BS *Syd*, MB BS, PhD *UNSW*, FRACP

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

•Herbert Herzog, Mag, Dr, *Priv Doz*

•Tiina Iismaa, BSc PhD *Syd*

+Graham Jones, BSc MB BS *Syd*, DPhil *Oxf*, FRACP

+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*

+Edwin Robert Szeto, BSc MB BS *Syd*

Colin Kenneth William Watts, BSc *Otago*, PhD *Syd*  
 +\*Alexander David Wodak, MB BS *Syd*, FRACP MRCP

#### Lecturers

+Damien Arthur Boyd, MB BS *Syd*, FANZCA  
 +Richard Chye, MB BS *Syd*, FRACP  
 +\*Neil John Cooney, MB BS *Syd*, FRACP  
 +Stephen Gregory Cooper, MB BS *Syd*, FRANZCR  
 +Andrew Stuart Finckh, MB BS *Syd*, FACEM  
 +Mark Hicks, BA BSc PhD *Macq*  
 +\*Christopher Robert Jones, MB BS *UNSW*, FRANZCR  
 +Monique Malouf, MB BS *Syd*, FRACP  
 +Susan Christine Marsden, MB BS *Monash*, FRANZCR  
 +\*Samuel Thomas Milliken, MB BS *Syd*, FRACP  
 +Marshall Lawrence Plit, MB BS M Med *Wits*, PhD, FCP SA, FRACP, FCCP  
 +Paul Thomas Preisz, MB BS *Syd*, FACEM  
 +Bradley Charles Smith, MB BS *Syd*, FANZCA  
 +David Bruce Williams, MB BS *UNSW*, 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

Anthony James Chamber MB BS  
 Anthony John Grabs  
 \*Tiina Iismaa, BSc *Syd*, PhD *Syd*  
 +Graeme William Morgan, BPharm MB BS *Syd*, MRCP, FRACP

### Department of Anaesthetics, Emergency Medicine and Intensive Care

#### Head of Department and Professor

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

#### Associate Professor

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

#### Senior Lecturers

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

#### Lecturers

+Martin Thomas Duffy, MB BS *UNSW*, 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  
 +John Robert Raftos, 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*

### Department of Medicine

#### Head of Department and Professor

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

#### Professors

Christopher David Anderson, MB BS *UWA*, PhD *Linköping*, FACC  
 +Hugh Grant Dickson, MB BS *Qld* FACRM

#### Associate Professors

+Michael Bernard Barton, MB BS *Syd*, FRCS *Edin*, Cert HealthEcon *Mon*  
 +Karen Annette Duggan, BSc MB BS *Syd*, MD *UNSW*, FRACP  
 +Hosen Kiat, MB BS *Monash*, FRACP, FACC, FACP, FCCP  
 \*William Kricker, BSc, BE *Syd* MBA *UNSW*  
 +Stephen Lillioja, MB ChB *Otago*, Grad Cert Hed *UNSW*, FRACP  
 +\*Nicholas Antony Pocock, MB BS *Syd*, MD *UNSW*, FRACP

#### Senior Lecturers

+Martin Philip Berry, MB BS *Syd*, FRANZCR, LMCC, FRCP(C)  
 +John Ming Gee Chu, BSc 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, FAFPHM  
 +Alan John McDougall, BMedSc MB BS *Syd*, FRACP  
 +Mark Joseph Penny, MB BS PhD *UNSW*, FRACP  
 +John William Quin, BSc *Syd*, MB BS *UNSW*, PhD *ANU*, FRACP, FRCPA  
 +\*David Rosenfeld, MB BS *Syd*, FRACP, FRCPA  
 Eva Segelov, MB BS PhD *Syd*, FRACP  
 +Michael Suranyi, MB BS PhD *Syd*, FRACP  
 +Nicholas Zwar, MB BS, RACGP

#### Lecturers

+Martin Berry, MBBS *Syd*, FRACP, LMCC, FRCP (C)  
 +Johannes Lodewikus Lourns Bester, MB ChB *Pret*, BSc (POTCH), MF GP (RSA), MMed Rad *Wits*, FRANZCR  
 +Catherine Bones-Saunders, MB BS *Syd*, DDU *ASUM*, FRACP  
 +Dennis John Cordato, MB BS *Syd*, FRACP  
 +Geoffrey Paul Delaney, MB BS *UNSW*  
 +Stephen Anthony Della-Fiorentina, MB BS *Syd*, FRACP  
 +Hugh Dixon, MBA *INSEAD*, FRACP  
 +Adam Ross Fowler, MB BS *Qld*, FRANZCR  
 +Amanda Jane Goldrick, 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, FSGC  
 +Andrew Bailey Kneebone, MB BS *UNSW*  
 +May-Wan Lee, MB BS *Syd*, DDU *ASUM*, FRANZCR  
 +Sidney Tsz Ho Lo, MB BS FRACP, DDU  
 +Dominic Yiu-Cheong Leung, MB BS *HK*, MRCP(UK), FRACP  
 +Eugene Joseph Moylan, MB BS *Syd*  
 +Rohan Rajkumar Rajaratnam, MB BS *Syd*, FRACP  
 +\*Roger John Renton, MB BS *Syd*, DPRM, FRCRM, FAFRM  
 +Praneal Dutt Sharma, MB BS *Jrwaji*, India, FRANZCR  
 +Hui Tie, MB BS, FRACP, DDU  
 +John Mark Worthington, MB BS BMedSc *Syd*, FRACP, FACC  
 +Sharon Lee Worthington, MB BS *W Aust*, FRACP

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## Department of Surgery

### Head of Department and Professor

Stephen Arthur Deane, MB BS *Syd*, FRACS, FACS, FRCS (C)

### Associate Professor

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

### Senior Lecturer

John Anthony Crozier, AM, MB BS *Adel*, FRACS, DDU

+James Van Gelder, MB BS MD *Melb*, FRACS,

M Med, Stat *N'cle (NSW)*

### Lecturers

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

+Somak Lertsumitkal, MB BS *UNSW*, MPH *Syd*, FRACS

+Aashit Shah, MB BS MS FRCS *Edin*, FRCS *Glas*, FRACS

### Honorary Visiting Fellow

Kenneth Kurt Merten, MB BS *Syd*, FRCS *Edin*, FRACS, MSc, Soc DM *UNSW*

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## Department of Anaesthetics, Emergency Medicine and Intensive Care

### Professorship of Intensive Care

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

+David Keith Crooke, MB BS BA *WA*, MBIomedE *UNSW*, FANZCA

+Linda Margaret Dann, MB BS *WA*, FACEM, FANZCA

+Mary Louise Done, MB BS *Syd*, GradDipQMHC *LaT*, FANZCA

+Keith Edwards, MB BS *Syd*, FACEM

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

+Alan Giles, MB BS *UNSW*, FACEM

+Susan Ieraci, MB BS *Syd*, FACEM

+Marian Lee, MB BS *Melb*, DCH FACEM

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

+Jennifer Anne Martin, MB BS *UNSW*, FACEM, DCH

+Michael Joseph Anthony Parr, MB BS *Lond*, MRCP *UK*, FRCA *Eng*

+Irene Rotenko, MB BS *Syd*, FACEM

+John Charles Sammut, MB BS *Syd*, FACEM

+Antony Hugh Lawrence Stewart, MB BS

+Tracey Maree Tay, MB BS *N'cle (NSW)*, FANZCA

+Venkateswaran Venkateswaran, MB BS, MRCS, LRCP,

DARCP&S *Eng*, AM *Sing.*, FAMS *Singapore*

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

+Peter Wyllie, MB BS *UNSW*, FACEM

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## School of Community Medicine

### Head of School (Acting)

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

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## Kensington Campus

### Professor of Community Medicine

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

### Professor of Epidemiology

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

### Associate Professors

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

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

Mark Ferson, MB BS *Syd*, FRACP FRAFPHM, MPH, MD *UNSW*

### Senior Lecturers

Deborah Ann Black, BSc DipED MStat PhD *UNSW*

David Sutherland, MB BS *Syd*, DCH *Dublin*, MclnEd, FRACGP, FRACMA

### Lecturers

Susan Joan Beecher, BA *Macq*, BSocStud *Syd*, MSW *UNSW*

Catherine Anne Berglund, BSc *Syd*, PhD *UNSW*

QBijou Blick, MB BS MPH *Syd*, Dip Paeds

Margaret Cunningham, BSW MSW GDipSocCom *UNSW*

+Valerie Delpech, MB BS, MPH *UNSW*, FAPHM

John Frith, RED BScMed MB BS MCH *UNSW*, GradDipEd *SydCAE*

Elizabeth Harris, BA DipED MPH *Syd*

Norman John Kelk, BA BSW *Qld*, PhD *UNSW*

Martha LoureyBird, MSp Sc, BSpSc (ExSc), DipRT *UNSW*

Julie McDonald, BA *Macq*, MPH *Syd*, RN

Roslyn Poulos, MB BS MPH *Syd*, PhD *Macq*

Ingrid van Beek, MB BS MBA *UNSW*, FAFPHM

Giovanna Zingarelli, BSc MB BS *UNSW*

### Honorary Visiting Fellows

Roy Gary Beran, MB BS MD *UNSW*, GradDipTertEd *NE*,

BLegS *Macq*, Dip Fur Ed *Adel* CAE, FAFPHM, FRACP,

FRACGP, FRCLM

John Cawte, MB BS MD *Adel*, DPM PhD *UNSW*, AO, FRANZCP, FAPR

John Hans Hirshman, AM MB BS DPH DTM&H *Syd*, FRACMA, FRSTM, MD *HC*

Sylvia Jacobson, MB BCh *S.A.*,

Peter MacDonald Trebilco, BA *Syd* ED, FRACHPER

Nanette Stacy Waddy, MBE MB BS *Syd*, FRANZCP, AC, MD *Syd*,

### 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

### Senior Lecturers

+\*James Bell, BA MB BS *Syd*, FRACP, AMPSAD

+Daniel Kam Yin Chan, MB BS *UNSW* FRACP

+\*Brian Michael Draper, MB BS *UNSW*, FRANZCP

+\*Gideon Avram Caplan, MB BS *Syd*, FRACP

### Lecturers

+Stella Engel, MB BS *UNSW*, DPRM, FACRM, FHKCP

+Lorraine Ellen Jones, MB BS *Qld*, FACRM, MPH, DPRM, FAFRM (RACP)

+Peshotan Homi Katrak, MB BS MD *Bom*, FACRM, MRCP *UK*, FAAPMP, FAFRM

+\*Stephen Ronald Lord, BSc MA *Syd*, PhD *UNSW*

+\*Tuly Rosenfeld, MB BS *Syd*, FRACP

Elizabeth Sullivan MB BS MPH *Syd*, FAFPHM

+John Alan Ward, MB BS *Qld*, MSc *Lond*, FRACP

## St George/Sutherland Hospital

### Professor of Rehabilitation, Aged and Extended Care

Frederick Ehrlich, MA MB BS Syd, PhD Macq, Dip Phys & Rehab Med, FRCS, FACRM, MRCPsych, FAFRM (RACP), MACLM

### Senior Lecturers

+George Meredith Stathers, MB BS Syd, FRACP

### Lecturers

+Gregory Thomas Bowring, BSc MB BS UNSW, FACRM, FAFRM (RACP)

+David James Burke, BMed N'cle(NSW) 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

Martin Kennedy, MB BS Syd, DGM Lond, Dip RACOG, FACRM, FAFDRM (RACP)

+Robert Peter Leitner, MB BS Syd, FRACP

+Jeffrey Looi, MB BS Syd, MD UNSW, FRANZCP

+Litsa Morfis, MB BS Syd, FRACP

+Lucia Victor Rodrigues, MD Brazil, FANZCA, FFARCS

+Merennege Raja Indrajith Salgado, MB BS MD Ceylon, MRCP Eng, FRACP, FCCP Ceylon

+Peter Ivan Smerdely, MB BS MPH UNSW, PhD Syd, FRACP

## St Vincent's Hospital

### Associate Professor

+Andrea Mant, MB BS Syd, MA ANU, MD UNSW, FRACGP

### Senior Lecturers

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

+Andrew Grulich, MB BS Adel, MSc Lond, PhD UNSW, FAFPHM

+Don Edward Smith, MB ChB MD Otago

+Alexander David Wodak, MB BS Syd, FRACP, MRCP Lond

### Lecturers

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

+Neil John Cooney, MB BS Syd, FRACP

+Gregory John Dore, BSc MB BS UNSW, FRACP

## South Western Sydney Area Health Service

### 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 (RACP)

+Guy Barrington Marks, BMedSc MB BS UNSW, PhD Syd, MRCP, FRACP, FAFPHM

+Christopher John Poulos, MB BS Syd, FACRM, FAFRM (RACP)

+Sidney Ernest Williams, MB BS Syd, FRANZCP

+Stephen Francis Wilson, MBBS Syd, Dip Sports Med Lond, FRACGP, FAFRM

+Nicholas Zwar, MB BS, RACGP

### Lecturers

Felicity Helen Bagnall, MB BS Syd, FRACP

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

+Sameer Bhole, BDS Bom, MDSc Syd, MRACDS, FRSH

+Kerrie Gai Chant, MB BS MHA MPH UNSW, FAFPHM

+Andrew Malcolm Dermot Cole, BSc MB BS Syd, FAFRM, FACRM

David Anthony Conforti, MB BS UNSW, FRACP

+Thomas Peter Gibian, MB BS Syd, FRACP

Bin Jalaludin, MB BS Syd, MPH Syd, MRCP, FAFPHM (RACP)

+Kevin Johnstone, MB BS Syd, FRACP

+Sheila Mary Knowlden, MB BS Syd, DOBstRCOG, MRACGP, DipEd /TATE, FRACGP

+Friedbert Kohler, MB BS Syd, FACRM, FAFRM

+Kenneth Christopher Marr, MBChB Glas, MM Syd

+Roger John Renton, MB BS Syd, DPRM, FRCRM, FAFRM, RACP, DPRM

+Iain Hugh Rodger, MB BS Qld FAFRM, FACRM

+Joanne Travaglia, BSocSt, GradDipAdultEd (TESOL), MEd, UTS

+Jeffrey Thomas John Rowland, MB BS UNSW, FRACP

+Gilbert Whitton, MB BS Syd MComm

+Jennifer Monika Wiltshire, MB BCh NUI, BOA Dublin

## The Illawarra Health Service

### Senior Lecturers

+Christopher John Poulos, MB BS Syd, FACRM, FAFRM (RACP)

### Lecturers

+Guy Michael Bashford, MB BS Syd, FACRM, FAFRM

+Hugh John Fardy, MB BS UNSW, DRACOG Lond, FRACGP

+Ian Arnold Jenssen, MB BS Syd, MBIomedEng UNSW, FAFRM, AAFOM

+Shanthi Kanagarajah, MB BS Syd, MBio Eng, FRACP

Diana Lim, BSc Syd, MB BS Syd, FRACP

+Geoffrey Robert Murray, BSc MB BS Syd, FAFRM, AAOFM

John Quinlan, MB BS Syd, FAFRM MA CMSKM

## School of Health Services Management

### Kensington Campus

### Head of School

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

### Professor of Health Services Management

James Sutherland Lawson, MB BS MD Melb, MHA UNSW

### Associate Professor

Pieter Jacob Degeling, BA Qld, PhD Syd

### Senior Lecturers

Philip William Bates, BCom LLB UNSW, FCHSE

Jeffrey Braithwaite, BA NE, DipLRMIR Syd, PhD UNSW

Helen Madeleine Lapsley, BA Auck, MEc Syd, FCHSE

Mary-Louise McLaws, DTPH MPH PhD Syd, FRSPH&TM

+Rodney O'Connor, PhD BSc CHEc Monash, AFCHSE

Stephanie Doris Short, DipPhy BA UNSW, MSc Lond, PhD UNSW, FCHSE

### Lecturers

Kevin Vincent Forde, MCom(Hons) UNSW

Maria Theresa Ho, MB BS Syd, MHA UNSW, MRACMA, AFCHSE, CHE

Roderick Iedema, BA Liv. (UK), MA PhD Syd

+David Gervaise Thomas, MA, Diphib Rand

Anna Whelan, BA W'gong, PhD Syd, RN, SCM

### Visiting Professor

Don Hindle, BA Lpl, MS PhD Lanc

**Visiting Fellows**

Christopher Aisbett, BSc *UNSW*  
 Richard Fleming, Btech, Dip Clin Psy  
 Ben Fong, MB BS MPH *Syd*, DipOccMed *CUHK*, AFCHSE, CHE, MHSM, FRACMA, FHKCCM  
 Colin Grant, MA *Oxf & Brun*, FHA  
 John J Hall, MB BS, MTH, FAFPHM, FACTM  
 Brian Johnston, BHA *UNSW* Dip Pub Admin *NSW IT*, FAIM, AFCHSE, CHE  
 William Lawrence, BA *Syd*, MHP *UNSW*  
 Peilin Yang, CHEC *Monash*, MHP *UNSW*  
 Ling Xhu

**Business Manager**

Deidre Kennedy, BA *Deakin*, MA *UNSW*

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Christine Roussels

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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

**Associate Professor**

Maurice Eisenbruch MD BS DPM *Melb.*, MEdSt *Monash*, MPhil *Camb.*, MRCPsych, FRANZCP, AFBPsS, MAPsS, MACE  
 +Julian Gold, MB BS *Syd*, DipEpidMStat *Lond*, FAFPHM, FACHSE

**Senior Lecturers**

Peter Harris, MB BS *UNSW*, FRACGP  
 Christopher Stephen Hughes, BSc DipEd *Monash*, BA *Syd*, MCoSci *UNSW*  
 Lisa Maher BA *Qld*, MA PhD *Rutgers*  
 Jan Ritchie, DipPhy *Syd*, MHPed PhD *UNSW*  
 Magnus Akbe Stiernborg, BA PhD *Stock*  
 Susan Toohey, BA *Qld*, MLS MA *Maryland*  
 Patricia Youngblood, MA *Colum*, BA MEd PhD *NC*

**Lecturers**

Leah Bloomfield, BSc *Syd*, MPH *UNSW*  
 Joanne Callen, BA *UNSW*, DipEd *Syd Teachers Coll*, MPH *Syd*  
 Pippa Craig, BSc Dip NutrDiet *Syd*, MHPed *UNSW*  
 Sophie di Corpo, BA *Syd*, Dip Ed *SydCAE*, MDistEd *S. Aust.*  
 +Steven Faux, MB BS *UNSW*, BA *AustFilmTelRadioS*, FRACGP, FRMRACP  
 Susan Furber, BSc PhD *UNSW*, MPH *Syd* Dip ApplEpi *NSW Health Dept*  
 Phillip Godwin, BHA MHPED *UNSW*, AdipNrEd *Cumberland Coll.*, RN  
 Brenda Hill, BA DipEd *Syd*, MPH *UNSW*  
 Jo Mitchell, BS *Syd*, Dip Nutr Diet MPH *UNSW*  
 Alexandra Smith, MB BS *UNSW*, FRACP  
 Eilean Genevieve Watson, RN, BSc, MHPed *UNSW*

**Associate Lecturers**

Sally Nathan, BSc Psych *UNSW*  
 Franziska Trede, DipPhy *Frieburg*, MHPed *UNSW*

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**School of Obstetrics and Gynaecology****Head of School**

Professor MJ Bennett

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**Royal Hospital for Women****Professor**

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

**Associate Professors**

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 +Frederick Neville Hacker, MB BS *Qld*, MD *UNSW*, FRANZCOG, FRCOG, FACOG, FACS  
 +Donald Eric Marsden, MB BS *S. Aust.*, FRANZCOG, CGO  
 +Thierry Georges Vancaillie, MD, FRANZCOG

**Senior Lecturers**

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 Leo Robin Leader, MB ChB *CapeT*, MD *UNSW*, FRANZCOG, FRCOG FCOG SA DA RCP&S *Lond*  
 +Daniel Challis, MB BS *Syd*, FRANZCOG, DDU

**Lecturers**

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 Stephen Dan Horowitz, MB ChB *CapeT*, MRCOG, FRANZCOG FCOG SA  
 +Swaran Lata Nand, DpSM *Fiji*, DObst *Otago*, FRANZCOG

**Technical Officers**

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 Grace Van Der Vegte

**Administrative Assistants**

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**St George Hospital****Professor**

Michael Chapman, MB BS *Adel*, MD *Lond*, MRCOG, FRANZCOG

**Associate Professor**

Kate Hilda Moore, MB BS *Syd*, MD *UNSW*, MRCOG, FRANZCOG

**Lecturer**

+Gregory Robertson, MB BS *WA*, MRCOG FRANZCOG

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**South Western Sydney Area Health Service****Professor**

Felix Wong, MB BS *HK*, MMed *Sing*, MD *ChinHK*, FRCSEd, FRCOG, FRANZCOG

**Senior Lecturer**

+Rajanishwar Gyaneshwar, MB BS *UNSW*, FRANZCOG  
 +Robert Francis Ogle MB BS, FRANZCOG, FRCOG, CG (HGSA)  
 +John Stefan Smoleniec, MB BCh BScMechEng *J'burg* MRCOG

**Lecturers**

+Bevan John Brown, MB BS *Syd*, FRANZCOG  
 +Ian Robert Fulcher, MB BS *Syd*, DipRACOG, MRCOG, FRANZCOG  
 Gregory Brian Gard, MB BS BSc(Med) FRANZCOG  
 Karen Anne Harris MB BS *Syd*, FRANZCOG, Grad Dip Cl Ed  
 +Gamal Matthias, MB ChB *Cairo*, MRCOG, FICS, FRANZCOG  
 +Geoffrey Donald Reid, MB BS *Mon*, FRANZCOG  
 ☉Karen Willetts, BSc *Syd*, D.Phil *Oxf*.

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## School of Paediatrics

**Head of School**

Professor RL Henry

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## Sydney Children's Hospital

**John Beveridge Professor of Paediatrics**

Richard Leigh Henry, MB BS *Syd*, MD Dip Clin Epi *N'cle*, FRACP, MRACMA

**Professors**

+Jackie Crisp, BA, PhD *Macq*  
 Anne Marie Cunningham, MB BS PhD *Syd*, FRACP  
 Stephen Bruce Dowton, MB BS MD *Syd*, FACMG, FRACP  
 +Michelle Haber, BSc(Psych) PhD *UNSW*  
 +Bernard William Stewart, MSc *UNSW*, PhD *Lond*, FARACI  
 +Leslie White, MB BS *Syd*, DSc *UNSW*, FRACP

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 +Glenn Mark Marshall MB BS *UNSW*, FRACP  
 +Graeme John Morgan, MB BS *Syd*, FRACP  
 +Murray David Norris, BSc *ANU*, MAppSc *NSWIT*, PhD *UNSW*  
 +Marcus Rex Vowels, AM MB BS *Syd*, MD *UNSW*, FRACP  
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 Peter Ian Andrews, MB BS *UNSW*, FRACP  
 +Timothy Bohane, MB BS *Syd*, FRACP  
 ☉Rose Ffrench, BSc PhD, *Melb*  
 Madlen Gazarian, MB BS, *Syd*, MSc *Toronto*, FRACP  
 Kei Lui, MB BS *UNSW*, FRACP  
 +Richard Bryan Lock, BSc *UCSwansea*, PhD *Lond*  
 John Douglas Mitchell, MB BS *Melb*, FRACP  
 +Victor Nossar, MB BS *UNSW*, FRACP, FAFPHM  
 +Edward Chee Pong Shi, MB BS MS *UNSW*, FRACS

**Lecturers**

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 +Ian Callander, MB BS *Monash*, FRACP  
 ☉Daniel Robin Catchpoole, BSc *UTS*, MSc(Qual) PhD *UNSW*  
 +Richard Cohn, MB BCh *Rand*, SCP *SA*, FRACP  
 +\*Clare Alice Cunningham, OAM, MB BS *Syd*, MRCP *UK DCH*  
 Andrew Day, MBChB *Otaga*, FRACP  
 +Michael Fairley, MB BS *Syd* FRANZP  
 +Bob Fonseca, MB BS *WA*, FRACP  
 +Belinda Goodenough, BA PhD Psychology *UNSW*  
 +Tom Grattan-Smith, MB BS *UNSW*, FRACP  
 +Robert Guaran, MB BS *Monash*, FRACP  
 +Arthur Jarrett, MB BS *UNSW*, FRACP  
 +Maria Kavallaris, BSc *UTS*, PhD *UNSW*  
 +Edwin Kirk, MB BS *WA*, FRACP  
 +Kevin Graham Lowe, MB BS *UNSW*, FRACGP, FRACP, FAFRM RACP  
 +Andrew McDonald, MB BS, *Syd*, DCH, MRCP, FRACP

+Fiona Mackie, MB BS *Syd*, FRACP  
 +Kieran Thomas Moran, MB BCh BAO DipObs DCH *Dublin*, FRACP  
 +John Robert Morton, MB BS *Adel*, FRACP, FARCGP, FCCP  
 +David Mowat, MB BS, *Lond*, DRACOG, MRCGP, FRACP  
 +Andrew Herbert Numa, MB BS *Monash*, FRACP  
 +Matthew O'Meara, MB BS *Syd*, FRACP  
 +Pamela Palasanthiran, MB BS *Melb*, MD, FRACP  
 +\*John Kieran Pereira, BMedSc MB BS *UNSW*, FRACS, FRANZCR  
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 Susan Russell, MB BS *UNSW*, FRACP  
 +Alison Mary Rice, BSc *Adel*, PhD *Bordeaux II*  
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 +Arthur Yeowtat Teng, MB BS *Syd*, DipPaed *UNSW*, FRACP  
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 +Jan Walker MB BS *Syd*, FRACP  
 +Christopher Webber, MB BS *Qld*, DipObs *RACOG*  
 +Gary David Williams, MB BS *Syd*, DipObs *RACOG*, DipChHealth *UK*, MRCP, FRACP

**Associate Lecturer**

Yvonne Belessis, MBBS

**Honorary Visiting Professors**

Hans Henning Bode, MD *Saarland*, FRACP, DABP, DABPE  
 Jagdish Mitter Gupta, MB BS *Sing*, FRACP  
 Elizabeth John, MB BS DCH MD *Madras*, MRACP, FRACP

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Annette Wendy Burgess

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## St.George Hospital

**Lecturer**

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

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## South Western Sydney Area Health Service

**Senior Lecturer**

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

**Lecturers**

+Roger Blackmore, MB BS *Syd*  
 +Ian Robert Callander, MB BS *Monash*, FRACP(Paed)  
 +Carolyn Cooper, MB BS *Syd*, FRACP  
 +Robert Guaran, MB BS *Monash*, FRACP(Paed)  
 +Arthur Victor Jarrett, MB BS *UNSW*, FRACP  
 +Andrew McDonald, MB BS *Syd*, DipCH *Lond*, MRCP(UK), FRACP  
 +Jacqueline Anne Stack, MB BS *Auck*, FRACP

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## School of Pathology

**Head of School**

Professor D Wakefield

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**Professors**

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



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

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☉Andrew Francis Geczy, BSc PhD *UNSW*  
Rakesh Kamal Kumar, MB BS *All India IMS, New Delhi*,  
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Andrew Russell Lloyd, MB BS *Syd*, MD *UNSW*, FRACP

#### Senior Lecturers

Nicholas Hawkins, MB BS PhD MEd *UNSW*  
☉John Stephen Sullivan, BSc *Dublin*, PhD *ANU*  
Gary Mayer Velan, MB BS PhD *UNSW*

#### Lecturers

☉Heather Dunckley, BSc *Otago*, PhD *ANU*  
Mark Dziegielewski, MB BS *Syd*, BSc, PhD *UNSW*  
Miles Philip Davenport, MB BS, BSc *Syd*, DPhil *Oxf.*

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Angelina Enno, BAppSc *UTS*

#### Museum Manager

Jenny Horder, BSc *UNSW*

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#### Laboratory Assistant

Lai Nguyen

#### Administrative Officer

Jennifer McLoughlin, BA *UTS*, MA *UNSW*

#### Administrative Assistant

Anne Henderson  
Danet Khuth  
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### Prince Henry/Prince of Wales Hospital

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+\*Colin Nicholson Chesterman, MB BS *Syd*, DPhil *Oxf*, FRACP,  
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+\*Beng Hock Chong, MB BS *Malaysia*, PhD *Syd*, FRCPA,  
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#### Associate Professors

+Philip John Hogg, BSc PhD *Qld*  
+Sydney Malcolm Bell, MB BS MD *Syd*, FRCPA  
+Daya Naidoo, MB ChB MD *Natal*, FRCPA, MAACB  
+William David Rawlinson, BSc 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  
+\*Phillip David Jones, MB BS *Syd*, PhD *ANU*, FRACP  
Levon Michael Khachigian, BSc PhD *UNSW*  
+Robert Lindeman, BSc 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  
+Vivienne Heather Tobias, MB BCh *Witw*, FRCPA  
Jeanne Tomlinson, MB BS *WA*, FRCPA

### St George Hospital

#### Senior Lecturers

+\*Yiu-Lam Kwan, MB BS *HK*, 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

### 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

#### Associate Professor

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

#### Lecturers

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

### South Western Sydney Area Health Service

#### Professor

+David John Davies, BSc MB ChB MD *Liv.*, FRCPA

#### Associate Professor

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

#### Senior Lecturers

+Lindsay Cameron Dunlop, MB BS *UNSW*, FRCPA, FRACP  
+\*Michael Peter Harvey, MB BS *Syd*, FRACP, FRCPA  
+Christine Ken-Choo Loo, BMedSc MB BS PhD *UNSW*, FRCPA  
+Penelope Irene Motum, MB BS PhD *Syd*, FRACP, FRCPA  
+\*David Rosenfeld, MB BS *Syd*, FRACP, FRCPA

#### Lecturers

+Christopher Joseph Chui Huo Chow, BSc *Syd*, MB BS *FRCPA*  
+Raymond Christopher Chan, MB BS *Syd*, FRACP, FRCPA  
+John Gallo, MB BS *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

Associate Professor Michael Alan Perry

### Kensington Campus

#### Scientia Professor

Eugenie Ruth Lumbers, MB BS MD *Adel*, DSc *UNSW*

#### Professors

Peter Hosford Barry, BSc PhD *Syd*, DSc *UNSW*

Michael Murray, BPharm PhD DSc *Syd*

Mark Joseph Rowe, BPharm MSc *Syd*, PhD DSc *UNSW*

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#### Associate Professors

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Elizabeth Frances Burcher, BSc *Edin*, PhD *UNSW*

John Joseph Carmody, MB BS MD *Qld*.

Robert Alastair Beveridge Holland, MB BS MD *Syd*, FRACP

Anthony Gerard Johnson, MB BS MD *UNSW*, MPH *Qld* FRACP

John William Morley, BBSc *LaT*., MSc PhD *Melb*

Ian Richard Neering, BSc PhD *UNSW*, MSc *Syd*

Michael Alan Perry, MRurSc *NE*, PhD *UNSW*

George Arthur Smythe, ATSC BSc PhD, *UNSW*

Richard Thomas, PhD MSc *Syd*, FPS

#### Senior Lecturers

David George Garlick, BSc MB BS *Syd*, PhD *ANU*

Karen Jane Gibson, BMedSc MB BS PhD *UNSW*

Stewart Ian Head, BSc *Leic*, PhD *Brist*

Vimal Kapoor, BSc PhD *Edin*

Geoffrey Philip Symonds, BSc MSc *Syd*,

PhD *Weizmann Inst Sci*

Lawrence Patrick George Wakelin, BSc *Kent*, PhD *Cant*, CChem, FRSC

Judith Sylvia Walker, DipPharm *CITNZ*, PhD *Syd*

#### Lecturer

Giuseppe Simonetta, BSc PhD *Monash*

Richard Martin Vickery, BSc *Syd*, PhD *UNSW*

#### Associate Lecturers

Jillian Frederika Hallam, BSc PhD *UNSW*

Rosemary Christina Kingsford, BSc *Syd*, DipEd *Syd Teachers Coll*, DipAnimalCare *NSWIT*

Romualda Dorathy Knihinicki, BSc PhD *UNSW*

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John Oliver Ivanov, BSc *UNSW*

#### Senior Technical Officers

Rudolph Bomba

Phillip John Crawford

Colin Wood

#### Technical Officers

Elaine Patrician Bonnet, ASTC *Syd Tech Coll*, BA MSc *UNSW*

Christine Anne Riordan, MB BS *UNSW*

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Walter Ernest Glover, MB BCh *BAO*, MD DSc *Belf*, FRACP

Garry George Graham, MSc PhD *Syd*

Paul Ivan Korner, AO, MSc MB BS MD *Syd*, HonDSc *UNSW*,

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#### Visiting Fellows

Sandra Anderson, BSc *Syd*, PhD DSc *Lond*

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Carolyn Broderick, MB BS *UNSW*, GradDipSpSci *Syd*

Bruce Conolly, MB BS *Syd*, FRCS *Lond*, FRACS, FACS

Brian Corrigan, AM, MB BS *Syd*, FACSP, FRACP, FRCPE, FRCP, FAFRM

Gillian Phyllis Courtice, BSc PhD *Syd*

Mel Cusi, MB BS *Spain*, FACSP

Josette Dangain, DEA *Paris VI*, PhD *UCL*

Alan Malcolm Duffield, BSc PhD *WA*

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*

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FAFRM(RACP), FAFOM(RACP)

Ian Hargreaves, MB BS, FRACP(Orth), FAOrthA

Dana Dominica Jamieson, MSc *Syd*, DSc *UNSW*

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Helen O'Connor, BSc *UNSW*, DipNutDiet PhD *Syd*

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Jennifer Mary Saunders, MB BS *UNSW*, FACSP

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Neal Thomson, MB BS *Syd*, FRCS *Ed*, FRACS, FAOrthA

Stuart Watson, MB BS GradDipSpSc *Syd*, FACSP, FASMF

#### Senior Administrative Officer

Vacant

## Prince of Wales Medical Research Institute

#### Professors

Douglas Ian McCloskey, AO, BSc MB BS *Syd*, DPhil *Oxf*, DSc *UNSW*, FRACP, FTE, FAA

Elsbeth Mary McLachlan, BSc PhD *Syd* FAA

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

#### Lecturers

James Alexander Brock, BSc *York*, BPhil *Oxf*

Richard Charles Fitzpatrick, BSc 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 MB BS *UNSW*, DPhil *Oxf*, FRACP  
 \*Richard Thomas MSc PhD *Syd*, FPS  
 \*Kenneth Mapson Williams, BSc PhD *UNSW*

**Lecturer**

- +Mark Hicks, BA MSc PhD *Macq*

---

**School of Psychiatry**
**Head of School**

Professor GB Parker

---

**Prince of Wales Hospital**
**Professors**

- +Henry Brodaty, AO, MB BS *Syd*, MD *UNSW*, FRACP, FRANZCP  
 +\*Robert Astley Finlay-Jones, MB BS PhD *WA*, DipPsyMed, FRANZCP, MRCP, FRCPsych  
 Gordon Barracough Parker, MB BS *Syd*, DSc MD PhD *UNSW*, FRANZCP  
 Perinder Singh Sachdev, MB BS MD PhD *UNSW*, FRANZCP  
 Philip Bowden Mitchell, MB BS *Syd*, MD *UNSW*, MRCPsych, FRANZCP

**Associate Professors**

- +Stewart Lloyd Einfeld, MB BS MD *Syd*, DCH *RCP&S*, FRANZCP  
 +Florence Levy, MB BS *Melb*, MPh *Yale*, MD *UNSW* FRANZCP  
 \*Wayne Gordon Joseph Reid, BA *R'dg*, MPsychol PhD *Syd*

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- +Marie-Paule Veronique Austin, MB BS *Monash*, FRANZCP  
 +\*Brian Michael Draper, MB BS *UNSW*, FRANZCP  
 +Michael Dudley, MB BS *Syd*, BD *Melb*, FRANZCP  
 +Maryanne Cecile O'Donnell, MB BS MD *UNSW*, MRANZCP, FRANZCP  
 \*Dusan Hadzi-Pavlovic, BSc MPsych *UNSW*  
 +Richard John Perkins, MB BS *Lond*, DPM, MRCPsych, FRANZCP  
 Ute Sybille Vollmer-Conna, BSc PhD *UNSW*

**Lecturers**

- +William Bruce Andrews, MB BS *UNSW*, FRANZCP  
 \*Jillian Ball, BA MA PhD *UNSW*  
 +Jackie Curtis, MB BS *UNSW*, FRANZCP  
 +Charles Post Doutney, MB BS *Syd*, FRANZCP  
 +Francis Paul Hume, MB BS *Syd*, FRACP, MRCPsych  
 +Stephen James Koder, MB BS *Syd*, GradDipEd *SydIE*, FRANZCP  
 +Colleen Keng Ai Loo, MB BS *UNSW*, FRANZCP  
 Gurjinder Singh Malhi, MB ChB BSc *Manc*, MRCPsych  
 +Vivienne Schnieden, MRCPsych, MB BS *Westminster*, MA *Cant* FRANZCP  
 +Michaela Anne Skopek, MB BS *UNSW*, FRANZCP  
 +Julian Norman Trollor, MB BS *UNSW*, FRANZCP  
 \*Wei Wen, BE *JIT China* PhD *Syd*

**Associate Lecturer**

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**Visiting Professors**

- Nathaniel McConaghy, MB BS *Qld*, BSc MD DPM *Melb*, FRANZCP  
 Beverley Raphael, AM, BS BS MD *Syd*, FRANZCP, SASSA, FRCPsych

**Visiting Fellow**

- Stanley Victor Catts, MB BS MD *UNSW*, FRANZCP  
 Carolyn Quadrio, MB BS *FRANZCP*  
 Sharon Reutens, MB BS *W Aust*

**Administrative Officer**

Janette Murdoch

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**St George Hospital**
**Professor**

Ian Bernard Hickie, MB BS MD *UNSW*, FRANZCP

**Lecturers**

- +Mary Jurek, MB BS *Monash*, DPM *Melb*, FRCP FRANZCP  
 +Adrian Keller, MB BS *Syd*, FRANZCP  
 +Majella Lajoie, MB BS *UNSW*, FRANZCP  
 +Jeffery Looi, MB BS *Syd*, FRANZCP  
 +Elizabeth Mackenzie, MB BS *UNSW*, FRANZCP  
 +Grant Sara, MB BS *Syd*, MM *Syd*, FRANZCP  
 +Elizabeth Scott, MB BS BSc *Lond*, FRANZCP  
 +Jeff Snars, MB BS *Syd*, FRANZCP  
 +Chanaka Wijeratne, MB BS *UNSW*, FRANZCP  
 +Peter Young, MB BS *Syd*, FRANZCP

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**St Vincent's Hospital**
**Professor**

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+Kathleen Anne Wilhelm, MB BS MD *UNSW*, FRANZCP

**Lecturers**

- +Johnathan Montah Carne, MB BS *UNSW MPH Syd*  
 +Rocco Crino, BSc Psych PhD *UNSW*, MPsych *Syd* FRANZCP  
 +Beth Kotze, MB BS *Syd*, FRANZCP  
 \*Lorna Peters, BSc PhD *UNSW*  
 +Duncan Bruce Wallace, MB BS, FRANZCP

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**South Western Sydney Area Health Service**
**Professor**

Bryanne Ethel Waldie Barnett, MB ChB *Aberd*, MD *UNSW*, FRANZCP  
 Derrick Michael Silove, MB ChB *CapeT*, FRANZCP

**Associate Professors**

Alexander Blaszczyński, BA PhD *UNSW*, MA DipPsych *Syd*, MAPS  
 +Scott Cameron Clark, MD *NJMS*  
 Philip Bentley Ward, BMedSc PhD *UNSW*

**Senior Lecturers**

+Jeffrey Cecil Cubis, MB BS *Syd*, PhD *NEW* FRANZCP, MFCAP  
 \*Vijaya Manicavasagar, MPsych PhD  
 +John Taylor, MB BS *Syd*, MD *UNSW* FRANZCP

**Lecturers**

- +Kevin Ludlow Clarke, MB BS *UNSW*, FRANZCP  
 +David Grace, MB BS *UNSW*, FRANZCP  
 +Jose Alberto Menendez, MD *Urug*, FRANZCP  
 +Sidney Oen, MB BS *Syd*, FRANZCP  
 +Zachary Steel, BA MPsych *UNSW*  
 +Sam 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 Stephen Gatt

### Medicine

Professor Bruce Milne Hall

### Surgery

Professor Reginald Sidney Albert Lord

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## Faculty Units and Centres

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### Centre for Health Informatics

#### Director and Professor

Enrico Coiera, MBBS *Syd*, PhD *UNSW*, FACMI

#### Co-Director (Professor, School of Electrical Engineering & Telecommunications)

Branko Celler, BE, BSc *UNSW*, FIREE

#### Deputy-Director (Senior Lecturer, Graduate School of Biomedical Engineering)

Nigel Lovell, BE *UNSW*, PhD *UNSW*

#### Business Manager

Steven Tipper, BSc *NSWIT*, MHA *UNSW*, FACHSE

#### Software Engineer

Hugh Garsden, BSc *Adel*, BSc *Qld*

#### Administrative Assistant

Amy Higgins

#### Affiliated staff (other faculties)

The Biomedical Systems Laboratory group (10 people) in the Faculty of Engineering at the University of NSW conducts research in home telecare systems.

#### Management Committee

Professor S Bruce Dowton  
Professor Mark S Wainwright  
Professor Branko Celler  
Professor Enrico Coiera

#### Advisory Committee

Professor B Celler  
Professor E Coiera  
Professor G Andrews  
Professor R Kitney  
Dr K C Lun  
Dr S Pedersen

---

### Centre for Hospital Management and Information Systems Research

#### Director

Associate Professor Pieter Degeling

#### Deputy Director

Ms Ros Sorensen BSoc St *Syd*, MBA *Canberra*

#### Management Committee

Professor S. Bruce Dowton (Chair)  
Professor Peter Baume

Professor William Birkett  
Associate Professor Pieter Degeling  
Mr Ian Forbes  
Mr Jim Pearce  
Associate Professor Debbie Picone  
Professor Mark Wainwright

#### Research Associate

Roderick Iedema, BA *Liv. (UK)*, MA PhD *Syd*.

#### Research Assistants

Ms Sharyn Maxwell  
Mr Mark Winters  
Ms Barbara Coyle

#### Administrative Assistant

Ms Sue Christian-Hayes

---

### The Ray Williams Biomedical Mass Spectrometry Facility

#### Director & Associate Professor

†George Albert Smythe, ASTC BSc PhD *UNSW*

#### Professional Officers

Martin Bucknall, BSc *Manc.*  
Anne Poljak, BSc *Syd*

#### Research Assistants

Sonia Bustamante, MChem *UNSW*  
Ma Nu Yi, BSc MSc *URangoon*, PhD *UNSW*

#### Honorary Visiting Fellow

Ian Gregor, BSc *N.E.*, 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 Sleight  
Professor D Wakefield

---

### Centre for Public Health

#### Director

Mr I Forbes (Chair)

#### Management Committee

Professor PE Baume  
Mr J Braithwaite  
Ms S di Corpo  
Mr A Hodgkinson  
Professor J Kaldor  
Ms D Kennedy  
Professor J Lawson  
Associate Professor R Richmond  
Dr J Ritchie  
Professor A Rotem  
Ms G Therin

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## 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

**Management Committee**

Professor P McDonald (Chair)

Professor R Batey

Dr D Bradford

Professor D Cooper

Professor SB Downton

Professor G Farrell

Dr R Finlayson

Ms R Gorna

Mr G Honnor

Professor J Kaldor

Professor S Kippax

Mr C Lawrence

Professor J Matthews

Dr J McAulty

Professor J Mills

Mr R Nixon

Professor S Pond

Dr D Robinson

Dr L Selvey

Professor R Short

Professor S Wesselingh

Dr J Willis

Ms B Turner (Secretary)

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## Medical Illustration Unit

**Head**

Michael J Oakey, AIMI, AAIMBI

**Second-in-Charge**

Virginia Day

**Senior Graphic Designer**

Marcus Cremonese, BA *Brazil*

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## National Centre in HIV Epidemiology and Clinical Research

**Professor and Director**

David Albert Cooper, BSc MB BS *Syd*, MD DSc *UNSW*, FRACP, FRCPA, FRCP

**Professor and Deputy Director**

John Kaldor, BA *W Aust*, MA *ANU*, PhD *Calif Berkeley*

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

Don Edward Smith, MB ChB MD *Otago*

**Senior Lecturer**

Sean Emery, BSc PhD *Brunel*

Andrew Grulich, MB BS *Adel*, MSc *Lond*, PhD *UNSW*, FAFPHM

Matthew Law, BA *Oxf*, MSc *Kent*, PhD *UNSW*

**Lecturers**

Alexander C Aichelburg, MD *Vienna*

Lesley Ashton, BA *Flin.*, MA *Adel*, PhD *UNSW*

Mark Boyd, BA *Tas*, MB BS *Flin*, DTM&H

Dianne Carey, BPharm MPH *Syd*

Kathleen Ruth Clezy, MB BS *Adel*, FRACP

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

Fraser Drummond, MB ChB *Aberd*

Chris Duncombe, MB BS *Syd*, RACGP

Gilbert Kaufmann, MD *Basel*

Sara Pett, BSc MB BS *Lond*, DTM&H, MRCP

**Manager, Finance and Administration**

Bronwen Turner, BA *UNSW*

**Honorary Visiting Fellows**

Bruce Brew, MB BS *Syd*, FRACP

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

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

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## National Drug and Alcohol Research Centre

**Executive Director and Professor**

Wayne Denis Hall, BSc PhD *UNSW*

**Research Director and Associate Professor**

Richard Phillip Mattick, BSc MPsych PhD *UNSW*

**Associate Professor**

Shane Darke, BA PhD *Syd*

Andrea Mant, MB BS, MD, MA, FRACGP

**Senior Lecturers**

James Bell, BA MB BS *Syd*, FRACP, AMPSAD

Jan Copeland, BSc PhD *UNSW*

Kate Dolan, BSc PhD *UNSW*

Maree Teesson, BSc PhD *UNSW*

Alex Wodak, MB BS, MRACP, FRACP, MRCP, FAFPHM

**Lecturers**

Erol DiGiusto, BSc PhD *UNSW*

Michael Lynskey, BSc MSc PhD *Otago*

**Board of Management**

The Hon K Rozzoli, MP (Chair)

Professor SB Downton

Mr K Evans

Dr J Gray

Professor WD Hall

Ms S Kerr

Associate Professor A Mant

Associate Professor RP Mattick

Professor M Milbourne

Dr N Swan

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

**Director**

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

**Operations Director**

Elizabeth Anne Sullivan, MB BS MPH *Syd.*, FRFPHM

---

## The New South Wales Hospital Infection and Epidemiology Surveillance Unit

### Director

Dr Mary-Louise McLaws

### Research Officer

Kate Sharp

### Administrative Assistant

Melissa Bender

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## Rural Health Unit

### Senior Lecturer, Kensington Campus

David Alexander Sutherland, MB BS *Syd*, DCH, MClinEd *UNSW*, FRACGP, FACRRM

### Project Officer

Justine Brindle

### Administrative Assistant

Wendy Anne Kelly

### Lecturer

†Phillip Gray, BSc MB BS DipObst DA *UK* FRACGP

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## The Simpson Centre for Health Service Innovation

### Director and Professor

Kenneth Mark Hillman, MB BS *Syd*, FRCAnaes *UK*, FFICANZCA

### Business Manager

Vacant

### Operations Manager

Sandra Avery

### Principle Research Fellow

Dr Hai Phung, MD *Saigon* BA MPH *Qld*

### Senior Research Fellow

Tuan Van Nguyen, PhD *UNSW*

Mai Tran MD *Saigon*, BA, MPH *Qld*

### Project Manager National Demonstration Hospitals Project

CFarla Saunders, BSc Dip Ed *Macq*,

### Advisory Board

Prof Ken Hillman (Chair)

Associate Professor Richard Badham

Professor John Daly

Associate Professor Pieter Degeling

Professor Bruce Downton

Professor Mark Harris

Ms Helen Lapsley

Professor Brian McCaughan

Mr Paul Naylor

Dr Hai Phung

Mr Raad Richards

Professor George Rubin

Mr Ian Southwell

Dr Andrew Wilson

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## Affiliated Institutes

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### Children's Cancer Institute Australia for Medical Research

#### Professor and Acting Director

Michelle Haber, BSc(Psych) PhD *UNSW*

#### Associate Professors

Glen Mark Marshall, MB BS MD *UNSW*, FRACP

Murray David Norris, BSc *ANU*, MAppSc *NSWIT*, PhD *UNSW*

#### Senior Lecturer

Richard Bryan Lock, BSc *UCSwansea*, PhD *Lond*

#### Lecturers

Daniel Catchpole, BSc *UTS*, MSc(Qual) PhD *UNSW*

Maria Kavallaris, BSc *UTS*, PhD *UNSW*

Alison Mary Rice, BSc *Adel*, PhD *Bordeaux*

#### Board

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Dr R Toll (Vice Chair)

Mr B Collins (Treasurer)

Dr J Dehnert

Mr B Fisk

Mr J M Franklin

Professor M Haber

Professor R Henry

Mr A Lazar

Mr M Maher

Associate Professor G M Marshall

Mr G Sprague

Professor L White

---

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

#### Professor and Executive Director

John Shine, AO, BScPhD *ANU*, FAA

#### Professor and Head, Metabolism Research Program

Donald John Chisholm, AO, MB BS *Syd*, FRACP

#### Professor and Head, Bone and Mineral Research Program

John Allan Eisman, AO, BS MB BS *Syd*, PhD *Melb*, FRACP

#### Professor and Head, Arthritis & Inflammation Research Program

Charles Reay Mackay, BSc *Monash*, PhD *Melb*

#### Professor and Head, Neurobiology Research Program

Peter Schofield, BSc *Syd*, PhD *ANU*

#### Professor and Head, Cancer Research Program

Robert Lyndsay Sutherland, MAgSc *Cant*, PhD *ANU*

#### Professor and Head, Pituitary Research Unit

Ken Kian Yong Ho, MB BS *Syd.*, MD *UNSW*, FRACP

#### Professor

Anne Marie Cunningham, MB BS PhD *Syd*, FRACP

Edward William Kraegen, BSc PhD *UNSW*, MACPSM

#### Associate Professor

Lesley Campbell, MB BS *Syd*, MD *Wash*, MD *UNSW*, FRACP, MRCP

**Senior Lecturers**

Trevor Biden, BSc PhD *Land*  
 Gregory Cooney, BSc PhD *Syd*  
 Roger Daly, BSc PhD *Liv*  
 Edith Gardiner, BSc PhD *Yale*  
 Herbert Herzog, Mag, Dr, *Priv Doz*  
 Tiina Iismaa, BSc PhD *Syd*  
 Elizabeth Musgrove, BSc PhD *UNSW*  
 Christopher Ormandy, BSc PhD *UNSW*  
 Colin Watts, BSc *Otago*, PhD *Syd*

**Board**

Mr PJ Wills AM (Chair)  
 Mr G Bradley  
 Dr T Clifton  
 Professor SB Dowton  
 Mr JH Gardener (Treasurer)  
 Rev Dr G Gleeson  
 Ms H Lynch, AM  
 Mr D Mortimer  
 Professor J Niland AO (Deputy Chair)  
 Sister C Nolan, RSC  
 Professor A Rogers QC  
 Professor J Shine AO  
 Professor RJA Trent  
 Dr R Williams, AM  
 Dr A Wilson

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

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

**Board**

Hon Neville Wran, AC, QC, (Chairman)  
 Mrs Ann Chang  
 Dr Tina Clifton  
 Professor Ian Dawes  
 Professor Robert Graham  
 Malcolm Irving  
 Mr Kerry James  
 Mr Mark Johnson  
 Mrs Anne Keating  
 Mr Paul Kelly  
 Mr John Laws  
 Mr Steven Lowy  
 Sr Claire Nolan  
 Mrs Ros Packer

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

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

**Professor and Director of Clinical Research**

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

**Professors**

Simon Charles Gandevia, BSc MD PhD DSc *UNSW*, FAA  
 Elspeth Mary McLachlan, BSc PhD DSc *Syd*, FAA  
 Erica Kathleen Potter, BSc *Syd*, PhD DSc *UNSW*

**Associate Professor**

Glenda Margaret Halliday, BSc PhD *UNSW*

**Senior Lecturer**

Janet Ruth Keast, BSc *Adel*, PhD *Flin*.

**Lecturers**

James Alexander Brock, BSc *York*, DPhil *Oxf*.

Kay Lorraine Double, BSc PhD *Flin*.

Richard Charles Fitzpatrick, MB BS PhD *UNSW*

Jenny Anne Harasty, BAppSc(SpPath) MAppSc PhD *Syd*

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

Jasmine Monica Henderson, BSc Dip ND PhD *Syd*

Stephen Ronald Lord, BSc MA *Syd*, PhD *UNSW*

Vaughan Gary Macefield, BSc PhD *UNSW*

Peter Michael Nickolls, MB BS BSc BE(Elec) PhD *Syd*

Janet Louise Taylor, MB BS MBIomedE MD *UNSW*

**Board**

Mr Will Penfold, AM (Chair)  
 Dr Donald Booth  
 Mr Paul Brassil  
 Professor Roger Dampney  
 Professor Bruce Dowton  
 Mr John Everett  
 Ms Deborah Green  
 Dr Don Grimes, AO  
 Professor Ian McCloskey, AO (Executive Director)  
 Mrs Andrée Milman  
 Professor Alan Pettigrew  
 Mr David Thomas  
 Mr John Walton, AM

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

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

**Medical Director**

Margaret Stewart, MB BS DDM FACD

**Board**

Mr R C Gibson (Chair)  
 Mr W Cahill  
 Dr C Commens  
 Dr J Doyle  
 Dr J Krivanek  
 Dr W Land, AM  
 Dr M Rogers  
 Dr R Rosen  
 Dr R Spencer  
 Dr P Weller

**Key to Codes**

- ✚ Conjoint appointment
- \* Appointment across two schools
- ⊕ Adjunct appointment

The Faculty of Medicine is undergoing some reorganisation in late 2000. At the time of going to press the Council is reviewing recommendations from the Faculty Board that several Schools amalgamate. Details will be published on the Faculty WWW site and in subsequent editions of the Handbook.





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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 **Course Descriptions**, which provides full details of course content, contacts and session/prerequisite details.

## Information Key

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

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UOC	units of credit
S1S2	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 courses 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
FOOD	Department of Food Science and Technology	Life Sciences
HEAL	School of Health Services Management	Medicine
MATH	School of Mathematics	Science & Technology
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
PSYC	School of Psychiatry	Medicine

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**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 programs or with any other general Faculty matter, contact one of the following people located in the Office of the Dean (map reference B27), Faculty of Medicine:

### Undergraduate

Gordon Rees,  
Administrative Officer  
Faculty of Medicine  
Tel: (02) 9385 2459  
E-mail: [g.rees@unsw.edu.au](mailto:g.rees@unsw.edu.au)

### Postgraduate & General Enquiries

Office of the Dean  
Faculty of Medicine  
Tel: (02) 9385 2454  
Fax: (02) 9385 1874  
E-mail: [info@notes.med.unsw.edu.au](mailto:info@notes.med.unsw.edu.au)  
Webpage: <http://www.med.unsw.edu.au>

### Elective term/Clerkships

Christine Hewitt  
Administrative Assistant  
Faculty of Medicine  
Tel: (02) 9385 2452.  
E-mail: [c.hewitt@unsw.edu.au](mailto:c.hewitt@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 program 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 program 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 and adjunct 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 at Greater Murray, 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, Simpson Centre for Health Service Innovation, Thrombosis and Vascular Research as well as the Ray Williams Mass Spectrometry Facility, the Medical Illustration Unit, the National Perinatal Statistics Unit, the Rural Health Unit and the National Centre in HIV Epidemiology and Clinical Research. 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.

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## Committees of the Faculty

Faculty Board  
Faculty Standing Committee  
Higher Degree Committee  
Medical Admissions and Re-enrolment Committee  
Medical Education Committee  
Pre-clinical Medical Education Sub-Committee  
Clinical Medical Education Sub-Committee  
Assessment Review Group  
Research Management Committee  
Research Resources Sub-Committee  
Research Student Sub-Committee  
BSc (Med) Hons Committee  
Rural Health Education Committee  
Working Party on Student Assessment  
Medical Ethics Education Working Party  
Student Support Working Party  
Postgraduate Education Working Party  
International Programs Working Party  
Medical Program Evaluation Committee  
Medical Research Advisory Committee  
Hospital Boards of Medical Studies  
School Advisory Committees  
Biomedical Library Advisory Committee  
Teaching Hospital Library Advisory Committee  
UNSW Oncology Advisory Committee  
Faculty Academic Promotions Committees

Centre for 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  
 National Perinatal Statistics Unit Management Committee

## Costs in Addition to Fees

Details of fees have been provided in the Guide to Students 2000 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 program. The following is an estimate, based on students' experience, of the expenditure which is likely to be incurred over the full length of the program. 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 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 program 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.

## Units of Credit

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

Old course measures have been replaced by new university units of credit (UOC). Every effort has been made to ensure the accuracy of the units of credit values shown for all courses. However, if any inconsistencies between old and new point measures cause concern, students are advised to check with the Dean's Office for clarification before making course selections based on the units of credit 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 courses 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 programs. Over the program of a degree students must:

- satisfactorily complete a minimum of 12 units of credit of study in General Education courses 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 program, or exist as a separate course, depending on the program.

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 courses toward the fulfilment of the General Education requirement, which are similar in content or approach to courses required in their program.**

## Faculty Requirements

Each Faculty has responsibility for deciding what courses are *not* able to be counted towards the General Education requirement for their students. In most cases, this means that courses offered by the Faculty in which a student is enrolled, or courses which are a required part of a program 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 courses may and may not be taken to fulfil the General Education requirements for each program 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 courses (or their equivalent) in designated categories A and B. The new General Education Program does not categorise courses in the same way.

As a result, students who enrolled prior to 1996 will be given full credit for any General Education courses 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 programs prior to 1996.

## 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 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.

## 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 initially 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; Program 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.

## 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 program 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 a special admission scheme for students from rural and remote areas and for Aboriginal and Torres Strait Islander Students.

### Rural Student Support and the Rural Student Entry Scheme

The Rural Student Support Scheme provides support in a number of areas for students from rural backgrounds. For details about the Rural Student Entry scheme, refer to the Undergraduate Study section.

### Aboriginal and Torres Strait Islander 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.

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

Schools and faculties will monitor program 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 programs should be aware. The requirements relate to:

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

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## **Health-related programs**

### **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 program officer and further details can be obtained from your Program Authority.

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## **Education programs**

### **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 program co-ordinator for further details.

## Hospital Teaching Campuses

### The Greater Murray Area Health Service

#### Wagga Wagga Base Hospital

PO Box 159, Wagga Wagga NSW 2650

Telephone: (02) 6938 6666, Facsimile: (02) 6921 8243

Wagga Wagga Base Hospital is a 220 bed acute regional hospital and has specialists in most major disciplines (medicine, paediatrics, surgery, orthopaedics, anaesthetics, obstetrics and gynaecology, 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 approximately midway between Sydney and Melbourne, the City of Wagga Wagga has a population of 58,000 providing an excellent country lifestyle with the social, recreational and business amenities of a major rural city.

#### Albury Base Hospital

PO Box 326, Albury NSW 2640

Telephone: (02) 6058 4444, Facsimile: (02) 6058 4504

Albury Base Hospital is a modern 155-bed facility providing specialist services to the Albury-Wodonga and the surrounding parts of southwestern NSW and northeastern Victoria.

The hospital is the designated regional trauma centre for the region, with a catchment population of approximately 150,000 people. Retrievals are conducted from the hospitals to outlying areas as far as Deniliquin and Coryong. In fulfilling this function, the hospital has a suitably appointed and staffed intensive care unit and emergency department, both of which are accredited for training by many of the Specialist Medical Colleges.

Albury Base Hospital has a considerable emphasis on teaching at both the undergraduate and postgraduate levels, accredited for training by many of the Specialist Medical Colleges and with the NSW Postgraduate Medical School.

#### Griffith Base Hospital

PO Box 1013, Griffith NSW 2680

Telephone: (02) 6962 8333 Facsimile: (02) 6964 1587

Griffith Base Hospital is a 92-bed facility providing general hospital services, located in the Murrumbidgee Irrigation Area of South West NSW. The Base Hospital provides a comprehensive range of clinical services to the population of Griffith and surrounding areas. This public facility is strongly supported by a dedicated team of experienced staff, general practitioners and visiting consultants.

### South East Health - South Eastern Sydney Area Health Service

Telephone (02) 9947 9898, Facsimile (02) 9947 9891

South Eastern Sydney Area Health Service was formed in 1996 with the amalgamation of the Eastern and Southern Area Health Services. The Area extends from Sydney Harbour in the 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 763,000 residents. It also serves a significant daily inflow of people to the Central Business District, the University of New South Wales, 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 a number of associated teaching hospitals are located in the area. There is predominantly an aging population. Approximately 32% of residents are born overseas and 67% of those are from non-English speaking countries. It is anticipated that the population will remain relatively static, with a 1.2% projected growth by 2001 (Figures from NSW Health Department, June 1998). Services are being constantly reviewed to ensure that they meet the needs of the community.

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

Barker Street, Randwick 2031

Telephone: (02) 9382 2222, Facsimile: (02) 9382 2233

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 and Prince of Wales Hospitals currently cover all specialties and sub-specialties. 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 and is located at the Randwick campus. 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

Barker 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.

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. Since its move to Randwick, the Hospital has established the Department of Endo-Gynaecology and the Natural Therapies Unit, an Australian first where natural products are actively researched.

In 2000, Mothersafe, a statewide medications in pregnancy and lactation service, was established.

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 Archemi 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 worldwide standing for its work on ovarian cancer and gynaecological malignancy.

### **The St George Hospital & Community Health Service**

Gray Street, Kogarah 2217

Telephone (02) 9350 1111, Facsimile (02) 9350 3999

Established in 1894, first as a Cottage Hospital, The St George Hospital & Community Health Service is now one of Sydney's busiest principal referral hospitals.

The St George Hospital is an accredited teaching hospital of the University of New South Wales, and has been affiliated with the University since 1964.

Designated as a major Trauma Service, the hospital accepts referrals from outside its immediate area as well as serving a local district population of approximately 225,000 (of whom more than 25% were born overseas).

It has the second busiest Emergency Department in NSW, on a case-weighted basis, and is the busiest in metropolitan Sydney.

A major redevelopment program during the 1990s has provided a state-of-the-art hospital covering all general areas of medicine (excluding heart and liver transplants). The St George Hospital has built an enviable reputation with areas of expertise including Oncology, Orthopaedics and Women & Children's Health as well as research.

A Private Hospital is located adjacent to the campus.

With nearly 2,200 employees, the fully accredited Hospital is situated on the southern Sydney railway line and is a 15 minute drive from Sydney airport.

Facilities on the hospital's campus include a childcare centre and car parking.

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

Victoria Street, Darlinghurst 2010

Telephone (02) 8382 1111, Facsimile (02) 8382 4142

St Vincent's Hospital is a 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.

St Vincent's Hospital 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 (Sacred 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 130 resident medical officers.

St. Vincent's is part of the integrated campus of the Sisters of Charity which comprises St Vincent's Private Hospital, the Garvan Institute of Medical Research, the Victor Chang Cardiac Research Institute and St Vincent's Clinic and the Centre for Immunology.

### **Calvary Hospital Kogarah Inc**

91-111 Rocky Point Road (Corner Fitzgerald Avenue)

Kogarah 2217

PO Box 261 Kogarah 1485

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

Calvary Hospital Kogarah Inc is an Affiliated Health Organisation conducted by the Sisters of the Little Company of Mary. The Hospital was opened in 1966 and provides multi-disciplinary palliative care services for 80 inpatients and day-only admissions. The Hospital has a 20-bed Geriatric Rehabilitation Unit, full multi-disciplinary 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 counseling and other aspects of palliative care are also offered.

Calvary Rehabilitation and Geriatric Service (CRAGS) 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. CRAGS also administers the statewide NSW Artificial Limb Service

### **The Langton Centre**

Corner Nobbs 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) 8382 9444, Facsimile (02) 8382 9555

The original Hospice was established in 1890. It is owned and governed by the Sisters of Charity of Australia and is a public hospital. In 1998 the Sisters of Charity integrated the Hospice with St Vincent's Hospital. In April 2000, a fast stream rehabilitation service was established and the service then became known as the Sacred Heart Palliative Care and Rehabilitation Service.

The palliative care service provides a comprehensive service which incorporates medical, nursing, pastoral, therapy, welfare, educational and bereavement. These services are available to in-patients and



home-care patients and extend to the support of the patients' families. Respite care is also provided.

The Rehabilitation service offers a comprehensive multi-disciplinary approach to orthopaedics and neurological rehabilitation.

The Palliative Care conducts formal educational programs for staff, staff from other facilities and tertiary students.

#### **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. Purpose built Day Rehabilitation and Injury Management Centre.

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

406 Victoria Street, Darlinghurst 2010

Telephone (02) 8382 7111, Facsimile (02) 8382 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 sub-specialties. There are also psychiatric and rehabilitation, oncology and day surgery units, a paediatric ward, and a busy emergency department.

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. There is also a well-equipped library.

#### **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 a 24 hour Accident and Emergency Service. It provides inpatient and outpatient services in general medicine, general surgery, orthopaedics, ENT, hand

surgery, and ophthalmology (including the Lions Eye Bank and Save Sight Institute), Sydney Artificial Eyes, Sydney Sexual Health Centre, Kirketon Road Centre in Kings Cross and the Langton Centre in Surry Hills.

The Sexual Health Centre, established at Sydney Hospital in 1992, is jointly administered by the University of Sydney and the University of New South Wales.

There are 118 visiting medical staff, nine staff specialists and 45 resident medical officers.

The Hospital has a medical library of full teaching hospital standard and a medical staff common room but does not provide staff with accommodation. The campus has undergone major refurbishment with the patients services block being opened in 1996.

#### **War Memorial Hospital Waverley**

125 Birrell Street, Waverley 2024

Telephone (02) 9369 0100, 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 a review, the Hospital commenced its primary role in geriatric rehabilitation and assessment services.

The Hospital now runs a geriatric rehabilitation and assessment unit, a rehabilitation outpatients service, a short stay residential respite unit, a day care unit which provides services for both frail and dementia clients and non-English speaking background groups and a podiatry outpatient services. A hydrotherapy pool supports the inpatient rehabilitation 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 5769

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 has been upgraded and now provides comprehensive 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 SWS Area 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 three Third Schedule institutions, namely Carrington Centennial Nursing Home, Karitane Mothercraft Society and Braeside Hospital.

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.

### **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 530 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 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 specialities, and research activities are rapidly expanding. Academic units have been established in most specialities.

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 of the hospital was completed in 1997 with the opening of the Education and Clinical Buildings.

### **Bankstown 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). The Hospital boasts a strong Gastroenterology Service. An Academic Chair in Medicine has been 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 Macarthur Health Service**

Campbelltown Hospital  
Therry Road, Campbelltown 2560  
Telephone (02) 4625 9222, Facsimile (02) 4629 1338

Macarthur Health Service is comprised of Campbelltown Hospital, Camden Hospital, Queen Victoria Memorial Home, Macarthur Community Health Service and Macarthur Mental Health Service.

Macarthur Health Service is undergoing a period of redevelopment that will include a new hospital in Camden and an increase in services and available beds at Campbelltown Hospital. At present,

the Health Service has 232 hospital beds providing general medical and surgical, obstetrics and gynaecology, orthopaedic, paediatric, aged care and rehabilitation, palliative care, 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 2 special care nursery. Emergency Departments operate 24 hours at each hospital, with the Campbelltown service being extremely busy.

Campbelltown Hospital is a general, paediatric, maternity and psychiatric hospital situated in the City of Campbelltown in the southwestern 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 provision of high standard community, inpatient and emergency care as the population expands.

### **Camden Hospital**

Menangle Road, Camden 2570  
Telephone (02) 4629 1000, Facsimile (02) 4629 1016

Camden Hospital is undergoing a period of redevelopment. During this time the services that are continuing include general, maternity, emergency and palliative care services. This facility provides services to the local communities of Camden and Wollondilly.

### **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 200 bed facility and provides services in general medicine, general surgery, orthopaedics, urology, plastic surgery, maternity and paediatrics. A twenty-bed detoxification unit, Corella Lodge was opened in March 1999.

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. There is 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. A comprehensive Drug Intervention Service is also operated in Cabramatta.

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

## 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.

## The Illawarra Area Health Service

Telephone (02) 4275 5111, Facsimile (02) 4276 1447

The Illawarra Area Health Service covers an area immediately to the south of the Sydney Metropolitan Area, and comprises the Local Government Areas of Wollongong, Shellharbour, Kiama and Shoalhaven. The estimated total population of the Illawarra is 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.

## The Mid North Coast Area Health Service – Central Sector

### Port Macquarie Base Hospital

Wrights Road, Port Macquarie 2444  
Telephone (02) 6581 2000, Facsimile (02) 6580 1110

Port Macquarie Base Hospital was 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 56 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, psychiatry obstetrics and gynaecology with a number of medical officers and medical students.

## The Southern Area Health Service

### Goulburn Base Hospital

Locked Bag 15, Goulburn, 2580  
Telephone (02) 4827 3111, Facsimile (02) 4827 3248

Goulburn Base Hospital is a major facility within the Southern Area Health Service and currently runs with 101 acute inpatient beds at an occupancy rate of about 85%. It provides many services for the population of the Southern Tablelands and South-Eastern region of New South Wales.

The hospital serves as a secondary referral centre for patients and clients from Crookwell and Braidwood. Referrals for the management of acute physical illness are also received from the St John of God Hospital, from Kenmore Hospital and from the Goulburn Training Centre (Goulburn Gaol 650 inmates). The community health service has its administrative base and a number of client services at its premises on the campus of Goulburn Base Hospital. Some community health services for the whole of South-Eastern NSW are also based in Goulburn, and there is an acute Psychiatric Unit on campus.

Clinical facilities at the Goulburn Base Hospital include general medicine, general surgery, obstetrics and gynaecology, paediatrics, coronary care/high dependency unit, and accident and emergency care. There are visiting specialists from Sydney or Canberra who do major orthopaedic procedures, implanting of prosthetic eye lenses as well as other ophthalmological work including outpatient clinics, and provide a consultant venereology service through the HIV/AIDS unit in Jennings House. These non-residential specialists attend at the hospital weekly or fortnightly.

## Faculty Units, Centres and Affiliated Institutes

### The Ray Williams Biomedical Mass Spectrometry Facility

The Ray Williams Biomedical Mass Spectrometry Facility (RWBMSF) is a UNSW beach-head facility providing research support to investigators on this campus and affiliated teaching hospitals. The RWBMSF is a major facility for molecular characterisation for the faculties of Medicine and Life Sciences, UNSW. The facility is equipped to world class standards enabling all types of mass spectrometry to help answer questions posed by researchers and clinicians to otherwise intractable problems. The RWBMSF was evaluated as a major research facility following a recent survey commissioned by the Commonwealth Department of Industry, Science and Resources. The RWBMSF is both a research and research-support facility engaged in several areas of study. The RWBMSF has developed several approaches to monitoring damage, repair and the cellular changes associated with aging and inflammatory disease and these are applied to a diverse array of research projects.

### The Centre for Health Informatics

The Centre for Health Informatics (CHI) is a collaborative venture of the Faculty of Medicine and the School of Electrical Engineering and Telecommunications. CHI focuses on four core research themes: Evidence-based Decision Support, Clinical Communications, Evaluation and Home Telecare:

- Evidence-based Decision Support examines methods and technologies for providing clinicians with up-to-date information on-line.
- Clinical Communications seeks to understand how information is disseminated, and how communication, and communication pathways, may be improved.
- The Informatics Evaluation Group (IEG) offers evaluation services for information and communication technology projects in health
- Home Telecare develops ways to monitor patients in their home, with information passed to their primary care giver.

### 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.

### 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.

### Children's Cancer Institute Australia for Medical Research

Children's Cancer Institute Australia for Medical Research is an independent institute affiliated with the Faculty of Medicine, University of New South Wales. The Institute was established in 1984 and occupies a four-storey complex at the southern end of the Sydney Children's Hospital. Our staff work in close collaboration with members of the Division of Haematology/Oncology in the Hospital. With a staff of over 50, including honours and postgraduate scholars of the University, the Institute undertakes laboratory research on malignant disease in children. Research work is organised into five programs: experimental therapeutics, molecular diagnostics, molecular carcinogenesis, leukaemia biology and stem cell biology. 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.

### 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 six major research programs – arthritis and asthma, bone and mineral, cancer, neurobiology, metabolism and diabetes and pituitary disorders – 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.

### 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, operates a high-resolution computer slide imaging service and a large-format printing facility for scientific posters.

MIU's eight staff annually produce around 60,000 slides, prints and digitised images 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 National Centre in HIV Epidemiology and Clinical Research (NCHECR) is recognised worldwide as a leader in HIV/AIDS research. The NCHECR undertakes research into HIV/AIDS that focuses on epidemiology, clinical research and clinical trials, in collaboration with other research centres, government departments, the pharmaceutical industry, community groups, health clinics and general practitioners. The priorities of the NCHECR include surveillance and monitoring of HIV infection and AIDS, epidemiological studies of transmission and disease progression, identification of social and behavioural factors affecting HIV disease and the establishment of Australia as a primary site for clinical trials of HIV therapy. As an extension of its role in HIV/AIDS, the Centre also carries out epidemiological and clinical research into other blood borne viruses, particularly hepatitis C and sexually transmitted infections. Another significant area is the NCHECR's contribution to international clinical research and provision of research expertise and training to countries of the Asia-Pacific region.

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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, Sydney Children's Hospital 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

The National Drug and Alcohol Research Centre (NDARC) 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 Aged Care.

The overall mission of NDARC is to undertake research and related activities that contribute to a more effective and efficient Australian treatment response to alcohol and other drug-related problems.

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

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## Prince of Wales Medical Research Institute

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 80, 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; neuro-pathology; and clinical neurophysiology, nerve and spinal cord injury, pain.

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## The Simpson Centre for Health Service Innovation

The Simpson Centre is a NSW Government funded Research Centre with a strong history of applied research and health service innovation. The genesis of The Simpson Centre was in response to increasing pressure for practical solutions to improve acute services. This has now expanded to include research across traditional boundaries to link with community based health care delivery. The principal objectives of the Simpson Centre are to: innovate, evaluate research and develop health service systems; disseminate research results and facilitate implementation of validated service innovation. This approach also incorporates examination of cultural and psychosocial factors influencing service delivery and utilisation.

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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, affiliated with the University of New South Wales and accredited by the National Health and Medical Research Council. 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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## Computing at UNSW

The Division of Information Services manages Information Technology at the University level and also runs the University Library at UNSW. All students and staff are given an e-mail address and off campus Internet access is available via a UNSW modem pool at an hourly rate. The Medicine Computing Support Unit manages computing services for the Faculty of Medicine. A Helpdesk service is available for staff on Tel 9385 1333, and all queries should be initially directed to this number or emailed to [helpdesk@unsw.edu.au](mailto:helpdesk@unsw.edu.au). Students should seek support from the DIS-Connect desk on 9385 1777.

More information about all aspects of Information Technology at UNSW can be found at the following Web sites:

Faculty of Medicine <http://www.med.unsw.edu.au>

UNSW <http://www.unsw.edu.au>

DIS-Connect desk <http://www.disconnect.unsw.edu.au>

Division of Information Services <http://www.dis.unsw.edu.au>

## 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 a MB or MBQ prefix. Serials are shelved on level 3 and 4, 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.

Two computer laboratories (a Pentium Lab and an Imac Lab) are available for the use of students from the Faculty of Life Sciences and the Faculty of Medicine (swipecard access needs to be arranged - ask at the Biomedical Library for more details). The labs provide access to the Internet, Word, Excel and to teaching programs provided by academic staff.

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>)

The Biomedical Library homepage facilitates easy access from the desktop for staff and students, both on campus and off campus, to databases, electronic fulltext journals (click on electronic resources), and subject guides, developed to assist teaching and learning (click on subject links).

## 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 students, medical educators and administrators both within the University and outside of it. Medsoc also hosts a number of educational events and social events 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.

Medsoc offers a panorama of social events, including the First Year Orientation Camp, a combined Harbour cruise (with medical students from Newcastle and Sydney Universities), regular BBQ's on the medical lawn, the Medsoc Classical Quest, the Medsoc Talent Quest, Trivia Quiz and the Medicine Ball (held at Luna Park in 2000). Last year Medsoc had an International Students' Dinner for international students as well as a huge Carnival on the Medical Lawn with Patch Adams as guest of honor.

Medsoc also hosts a number of speaker and educational nights including the Elective Seminar Night, Viva Survivor, Women in Medicine and the annual Spring Symposium. Last year Medsoc initiated the Student Support Programme which has among its features the development of a mentoring programme and a set of student skills workshops for first year students.

A biannual journal *Idioglossia* is produced by the Society to keep members informed. Hopefully by the time you read this Medsoc

will also have an up and running website to further facilitate medical student interaction.

The Society maintains communication with all levels of Faculty through the President, Vice-Presidents and Year Representatives, while other Medsoc members hold positions on the Student Guild (UNSW's peak student representative body). These officers together with the Secretary, Treasurer, Casoc Representative, Bookshop Manager and AMSA Representative constitute the Medsoc Executive which is elected annually in October. Active Medsoc members work in close liaison with the Medical Faculty through various boards and committees, on projects of significance to medical students.

At a national level UNSW Medsoc is affiliated to AMSA (the Australian Medical Students' Association) to ensure our concerns and views are expressed at a national level. This affiliation ensures that medical students are represented at both a University and Federal level. Medsoc takes a direct interest in medico-political issues and constantly updates its members on developments affecting medical students and doctors.

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 Edmund Blackett Lecture Theatre at the 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. Free food and drinks are provided at all Medsoc meetings.

The Medsoc Bookshop is the most important service provided by the Society to students. Textbooks, white coats and diagnostic equipment may be bought cheaply, usually between 23% and 28% off the recommended retail price! A nominal joining fee is payable. The Medsoc Bookshop is student managed to ensure we always get the best prices available. The Bookshop is located at the Barker Street entrance to the Prince of Wales Hospital. Enquiries may be made by phone on (02) 9382 2121, or by fax on (02) 9398 2343.

## The Rural Health Unit

The Rural Health Unit was established in 1995 to help address the chronic shortage of doctors in rural areas. Since this time the Unit has seen a rapid growth in personnel and student activities.

The principal areas of responsibility of the Rural Health Unit are:

- Administration of special entry schemes, such as the Rural Students Entry Scheme (RSES);
- Promoting Medicine to rural students;
- Supporting rural students in Medicine;
- Encouragement and support students who are interested in pursuing a career in rural health;
- Promoting rural health through various avenues, eg. the media and lobbying to the government;
- Promoting rural health as a viable alternative to urban based medical practice;
- Providing a forum for communication between metropolitan and rural health professionals, eg. workshops;
- Conducting research into rural health issues; and
- Supporting the UNSW Greater Murray Clinical School which will increase the opportunities for rural clinical learning.

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## Indigenous Health Section

This is supervised by the Rural Health Unit and the activities are broadly:

- Promotion of Medicine to Indigenous students;
- Administer the Indigenous students Pre-Medicine Program, a preparation to the medical course;
- Student selection;
- Student support;
- Curriculum Development;
- Development of partnerships with Indigenous communities.

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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 tel (02) 9385 3250.





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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 program 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 program 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 Admissions 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.

### Assumed Knowledge

For entry in 2001 and beyond there are no prerequisites. However there is assumed knowledge. Assumed knowledge is a level of achievement at the HSC (or equivalent) considered desirable for successful study in a program or first year course. Students who do not have the assumed level of knowledge are not prevented from enrolling, but may be placed at a considerable disadvantage.

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 program. Students who have not included Physics in their high school program are strongly advised to undertake the short 'bridging program' in Physics organised at the University of New South Wales preferably before commencing enrolment in the medical program, or at least before commencing the second year of the standard medical program. 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 program and may be required to complete satisfactorily an additional remedial English program before being deemed as having passed the year.

### Admission of Indigenous Students

The Faculty may admit suitably qualified Aboriginal and Torres Strait Islander people. A pre Medicine Program, run from mid January for one month is part of the preparation and selection processes for Indigenous students applying for medicine. 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. Further information may be obtained from the Access Scheme Co-ordinator at the University on (02) 9385 5434.

### Rural Student Entry Scheme

The Faculty has set aside thirty places in its medicine program intake each year for students of rural origin who are able to demonstrate to the Faculty that they meet a number of selection criteria. The scheme is designed for high school, undergraduate and graduate students. Further information may be obtained from the Rural Health Unit, School of Community Medicine at the University, tel. (02) 9385 3250

### Application Procedures

Applications for entry into the Faculty by all local students and those overseas students who are completing an Australian Higher School Certificate in 2000 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. Overseas students who are not completing an Australian Higher School Certificate in 2000 should apply through the Admissions Office, University of New South Wales, UNSW Sydney, NSW 2052, telephone (02) 9385 3156 by 15 December 2000.

## 3801 Medicine Program BSc(Med) MB BS

This six year program 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 program, and is usually obtained by using the weighted average mark for each year, calculated by weighting the courses according to units of credit.

On completion of Year 3 of the six year program, 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 Program 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 program description for 3831.

### Objectives of the Medicine Program

The objectives of the Medicine program are:

1. To produce a graduate with 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 courses in the program. The following regulations relate to supplementary assessment, which apply to all years of the Medicine program.

Course 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, course examiners may, in the time between the sitting of term assessments and the meeting of the Assessment Committee, 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 may not be granted when the composite mark accurately reflects failure to achieve the required standard of knowledge and understanding of the course.

### 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 course or courses.

### Show Cause

The Faculty's Assessment Committee requires all students to show cause why they should be allowed to re-enrol if, as a result of failures, their progress will result in their taking more than one year longer than the normal length of time for their program.

### Advice to Students on Computing Requirements

The stage has been reached where the use of information technology in education is no longer novel, but is a standard tool used widely by lecturers and students. Prospective students need to be aware that UNSW is a place where information technology will be integral to their education, and that staff can expect students to have access to and use information technology.

UNSW expects all new students to have off campus access to a standard modern computer with CD drive and internet connectivity (e.g. via a modem). The software on the computer should include:

- a word processor able to import and export RTF files
- a spreadsheet program able to import and export ASCII delimited tables
- a drawing/painting program able to import and export images in widely used formats such as GIF, JPEG, TIFF or PNG
- software able to read PDF and Postscript files (1)
- a Java 1.1 capable Web browser that supports HTML 2.0 (1)
- software to enable file transfer using the FTP protocol (1)
- networking software to enable TCP/IP connection (e.g. via a modem using PPP) (1)
- email software able to link to a popserver
- anti-virus software (1)

(1) UNSW's Division of Information Services is able to provide software of this type with students being charged only for handling and media costs.

As computers remain expensive items, UNSW will provide limited on-campus computer facilities that meet these standards for students who are unable to obtain access to off-campus access to such resources.

### Student Photographs and Identification Badges

In Year 1 of this program, 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 Human Immunodeficiency Virus (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 program. 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 practice 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.**

## Program Details

### Year 1

This year is conducted in two academic sessions and consists of four courses plus four General Education courses, 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 courses		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 medicine courses extend over both sessions and incorporate a final assessment at the end of Session 2. Assessments in courses which extend over the whole year also take place at the end of Session 1 in those courses 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, at the beginning of Session 2. Such students may discontinue without failure at that time.

### Rules of Progression

Students who pass all courses in Year 1 are eligible to progress to Year 2. Students who do not pass a course are required to repeat the whole course. They are not required to repeat any course in which they have attained a pass. Where students fail 16 Units of Credit or less, they are permitted to undertake a course from Year 2 if they have met the prerequisites for that course, and that there are no timetable clashes.

Failure in General Education courses or their equivalent will not prevent a student from progressing to Year 2.

### 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 Course Descriptions

For further information regarding these courses contact the course authorities.

#### ANAT1006 Anatomy 1

Staff Contact: Dr Dzung Vu  
UOC12 HPW6 S1 S2

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 course in human anatomy, embracing the disciplines of gross anatomy (topographical anatomy), histology and embryology. Teaching hours per week include: one 3-hour practical/tutorial class of Anatomy, with an additional 2-hour class of histology and embryology 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); early human development in utero.

**Assessment:** In addition to the end of year assessment, there is a mid-year assessment and a mid session assessment which contribute to the final assessment for the course but do not constitute barriers.

#### BIOC1319

##### Biochemistry for Medical Students

Staff Contact: Associate Professor Kevin Barrow

UOC12 HPW6 S1 S2

**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 Contact: Dr Norman Kelk and Ms Sue Beecher

UOC8 HPW4 S1 S2

**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 Stewart Head

UOC4 HPW4 S1

**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 during the session and a theory examination during the session and a theory examination at the end of Session 1.

#### Year 2

This year is conducted in two academic sessions. Teaching in the courses 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
<b>S2</b>			
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 2	8	8
5. PSCY2101	Human Behaviour	3	3
<b>Total</b>		<b>24.5</b>	<b>24.5</b>

#### 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 course authority.

#### Rules of Progression

Students who pass all courses in Year 2 are eligible to progress to Year 3. Students who do not pass a course are required to repeat the whole course. They are not required to repeat any course in which they have attained a pass. The exception is that they are required to repeat Clinical Studies 2 while they are repeating a Year 2 course or courses, regardless of whether or not they have passed Clinical Studies 2. Where students fail 16 Units of Credit or less, they are permitted to undertake a course from Year 3 if they have met the prerequisites for that course, and that there are no timetable clashes.

## Year 2 Course Descriptions

For further information regarding these courses contact the course authorities.

### ANAT2007

#### Anatomy 2

Staff Contact: *Dr Elizabeth Tancred*

UOC14 HPW7 S1 S2

Prerequisite/s: *ANAT1006, PHPH1004*

**Objectives:** To gain knowledge and understanding of the gross and microscopical structure of the internal organs and the brain; to be able to correlate embryonic development with the structure of normal organs and tissues and with the establishment of the anatomical relationships in the body; to correlate function and structure in the organ systems; to acquire basic understanding of the clinical relevance of the anatomical structures studied. Instruction is organised according to the organ systems and includes the cardiovascular, respiratory, alimentary, urinary, genital, endocrine, lymphatic and nervous systems. In all instances the clinical relevance of the anatomical structures is emphasised. The course consists of three subsections, each having separate lectures and tutorials: Gross Anatomy, Histology and Embryology, and Neuroanatomy. Gross Anatomy is taught in Session 1, Neuroanatomy is taught in Session 2 and Histology and Embryology are taught in both Sessions 1 and 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 and Embryology (S1 and S2), Gross Anatomy (S1) and Neuroanatomy (S2). Students must pass each component to pass the whole course.

### BIOC2329

#### Medical Biochemistry and Genetics

Staff Contact: *Dr Vincent Murray*

UOC8 HPW4.5 S1 S2

Prerequisite/s: *BIOC1319, PHPH1004*

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

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

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

### MDSG2001

#### Clinical Studies 2

Staff Contact: *Professor John Dwyer*

UOC4 HPW2 S1 S2

Prerequisite/s: *MFAC1001, ANAT1006, BIOC1319, PHPH1004*

**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 viva voce examination.

### PHPH2018

#### Medical Physiology 1

Staff Contact: *Dr Richard Vickery*

UOC16 HPW8 S1 S2

Prerequisite/s: *PHPH1004, BIOC1319*

**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 Ute Vollmer-Conna*

UOC6 HPW3 S1 S2

Prerequisite/s: *MFAC1001*

**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 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 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 campus-based courses 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 course 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 course on the response to infectious diseases, and with the Pathology course and is presented in an interdisciplinary fashion, providing a basis for subsequent instruction in the diagnostic and therapeutic aspects of clinical immunology in the later years of the curriculum.

	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
Total	22.5	22.0

Assessment

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

Rules of Progression

Students who pass all courses in Year 3 are eligible to progress to Year 4. Students who do not pass a course are required to repeat the whole course. They are not required to repeat any course in which they have attained a pass. The exception is that they are required to repeat Clinical Studies 3 while they are repeating a Year 3 course or courses, regardless of whether or not they have passed Clinical Studies 3.

Year 3 Course Descriptions

For further information regarding these courses contact the course authorities.

CMED3001

Medical Ethics and Health Law

Staff Contact: Associate Professor Paul McNeill

UOC4 HPW1.5 S2

Prerequisite/s: MDSG2001, ANAT2007, BIOC2329, PHPH2018, PSCY2101

Medical Ethics and Health Law builds on medical ethics presented particularly 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 cloning and genetic engineering, withdrawal of treatment, and the funding of health care. 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%).

MDSG3001

Clinical Studies 3

Staff Contact: Professor John Dwyer

UOC8 HPW4 S1 S2

Prerequisite/s: MDSG2001, ANAT2007, BIOC2329, PHPH2018, PSCY2101

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 course 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 program. 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 viva voce assessment. The end of year examinations will include a multiple choice question paper (MCQ), objective structured clinical examination (OSCE) and an assessment of communication skills. Students will be required to pass each of these three components of the end of year examination.

MICR3228

Microbiology for Medical Students

Staff Contact: Dr Hazel Mitchell

UOC8 HPW4 S1 S2

Prerequisites: ANAT2007, BIOC2329

Solely for students enrolled in the Faculty of Medicine.

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 course is placed on diseases of body systems. Laboratory based classes emphasise the role of the laboratory in diagnosis and include the use of problem solving approaches to the study of microbial diseases.

**Assessment:** This is based on mid-year and end of year examinations as well as a major assignment and practical examination.

### **PATH3101**

#### **Pathology**

Staff Contact: *Professor Denis Wakefield*

UOC10 HPW5 S1 S2

Prerequisite/s: ANAT2007, BIOC2329, PHPH2018

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 course PATH3101 comprises an introduction to basic disease processes (General Pathology), i.e. those fundamental processes which are common to all tissues and organs of the body. The course covers classification of disease, and deals with both congenital and acquired diseases. The program comprises lectures, tutorials, practical classes and demonstrations on responses of cells to injury, inflammation, aberrations of the blood and vascular system and specific related effects of embolism and infarction, as well as studies of normal and abnormal growth, and of healing and regenerative processes. In addition, it includes consideration of the basic processes of neoplasia and carcinogenesis, as well as an introduction to the pathobiology of such contemporary health problems as environmental toxicology. In order to integrate the teaching of pathology with clinical studies, each fundamental process will be exemplified by references to examples of diseases of organ systems (Systemic Pathology) of practical importance. **Assessment:** Proficiency in the course, sufficient to proceed to Year 4, will be assessed by mid-year and end of year 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 Romualda Knihinicki*

UOC8 HPW4 S1 S2

Prerequisite/s: PHPH2018, ANAT2007, BIOC2329

**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 Kapoor*

UOC10 HPW4 S1 S2

**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 program is primarily based in the teaching hospitals and comprises 6 terms totalling 41 weeks. Of these weeks, 36 will be spent in hospitals and 5 will be spent on campus. For their time in hospitals, 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 course comprises a component of didactic teaching within the framework of the common campus program and a major hospital-based component taught through a tutorial program.

The course 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 and project report (as a combined mark), 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 program and who otherwise are eligible to progress to Year 5 are not allowed to progress until they have satisfied such requirements.

## **Year 4 Course Description**

### **MDSG4001**

#### **Integrated Clinical and Community Studies**

Staff Contact: *Professor John Dwyer*

UOC48 S1 S2

Prerequisite/s: MDSG3001, PATH3101, PHPH3055, CMED3001, MICR3228, PHPH3014

**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 subspecialty 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 and a viva examination. 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 courses 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 courses 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) Paediatrics
- Term 5:2 (9 weeks) Obstetrics and Gynaecology
- Term 5:3 (9 weeks) Psychiatry
- Term 5:4 (9 weeks) Geriatrics/General Practice/Subspecialties

#### Group B:

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

#### Group C:

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

#### Group D:

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

### 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. Course examiners may, in the time between the sitting of term assessments and the meeting of the Assessment Committee, 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 all Year 5 courses.



## Preparation for Year 6 Elective Term

Arrangements for Elective attachments in Year 6 must be made by the students. Students should commence these arrangements in Year 4, especially those wishing to undertake attachments overseas. See course description for MFAC6001 under entry for Year 6.

## Year 5 Course Descriptions

### MFAC5001

#### Geriatrics/General Practice/Subspecialties

Staff Contact: *Professor Mark Harris*

UOC12

Prerequisite/s: *MDSG4001*

This nine week term will start with an introductory week of tutorials in Geriatrics, 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 hospital care; to stimulate thought concerning future directions for an ageing Australia. The course consists of tutorials and practice 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 course 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 tutorials 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

### 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: *Professor Michael Bennett*

UOC12

Prerequisite/s: *MDSG4001*

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: *Professor Richard Henry*

UOC12

Prerequisite/s: *MDSG4001*

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: *Professor Gordon Parker*

UOC12

Prerequisite/s: *MDSG4001*

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. Voluntary attachments to Illawarra and to a number of rural sites (Wagga, Lismore, Port Macquarie, Armidale, Dubbo, Albury, Coffs Harbour and Taree) occur across the term. 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 during that week. A liaison psychiatry report and two clinical case histories are also part of the assessment.

## Year 6

The first term in Year 6 is an Elective term (MFAC6001) of 8 weeks. The remaining five terms totaling 33 weeks are devoted to the course Integrated Clinical Studies 6 (MDSG6001) of which 30 weeks is based in the Teaching Hospitals and 3 weeks will be spent on campus.

## Year 6 Course Descriptions

### MDSG6001

#### Integrated Clinical Studies 6

Staff Contact: *Professor John Dwyer*

UOC44 S1 S2

Prerequisite/s: *MFAC5001, OBST5001, PAED5101, PSCY5001*

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 viva 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 and from the directed reading section in the syllabus. All three components of this examination must be passed.

### MFAC6001

#### Final Year Elective Term

Staff Contact: *Ms Christine Hewitt*

UOC4 S1

Prerequisite/s: *MFAC5001, OBST5001, PAED5101, PSCY5001*

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 reinforce an area of study already covered in the 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 universities, 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 Office of the Dean 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 Office of the Dean 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, the amount of this cover is reduced for 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 notify the institutions at which they will be working of the amount of cover and ensure that it is sufficient. Students may need to arrange additional cover under the liability policies of the host institution, or 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 program related activities within Australia only. Enquiries about this policy should be made directly to the Student Guild.

## 3821

## Combined Science and Medicine Program

## BSc MB BS

The Science/Medicine program is an alternative program 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. Students in the program may undertake courses offered at Advanced level and may undertake an additional research year (Honours) in Anatomy, Physiology or Biochemistry, leading to the award of a BSc Advanced degree.

The Science/Medicine program 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 program 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 Office of the Dean as soon as possible after receiving their offer of a place in the Faculty. Selection of students for the Science/Medicine program is made approximately two weeks before commencement of Session 1. The students undertake a three-year program 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 program. The student is offered a choice of a number of programs, leading to a major or double major in one or two of the courses Anatomy, Biochemistry and Physiology.

Students who have completed the combined Science/Medicine degree program are eligible for the award of honours in the MB BS degree program, based on weighted performance in courses (excluding the honours year) throughout the combined program.

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 program in accordance with the rules applying to the Medicine program 3801, together with an aggregate mark based on the Science component of the program.

## Program Details

The Science program is divided up into courses each of which is assigned units of credit. For the Science degree, a minimum of 144 units of credit in approved science courses is required. Students usually take 48 units of credit in each year.

### Courses

Details of all courses are given in the Science Handbook. Details of courses taught by Schools in the Faculty of Medicine are also published in the Course 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

#### UOC

BIOS1101	Evolutionary and Functional Biology	6
BIOS1201	Molecules, Cells and Genes	6
CHEM1011	Fundamentals of Chemistry A	6
CHEM1021	Fundamentals of Chemistry B	6
<b>or</b>		

CHEM1031	Higher Chemistry C	6
CHEM1041	Higher Chemistry D	6
MATH1031	Mathematics for Life Sciences	6
MATH1041	Statistics for Life and Social Sciences	6

#### or one of

MATH1011	General Mathematics 1B	6
MATH1131	Mathematics 1A (6)	6
MATH1141	Higher Mathematics 1A	6

#### and one of

MATH1021	General Mathematics 1C	6
MATH1231	Mathematics 1B	6
MATH1241	Higher Mathematics 1B	6
BSSM1110	Perspectives in Medical Science 1	3
	General Education	3

Plus 6 Units of Credit in Physics or Computer Science 6

**Total 48**

### Year 2

ANAT2111	Introductory Anatomy	6
ANAT2200	Basic Histology	3
ANAT2210	Systems Histology	3
BIOC2101	Principles of Biochemistry (Adv)	6
BIOC2201	Principles of Molecular Biology (Adv)	6
PHPH2101	Physiology 1A	6
PHPH2201	Physiology 1B	6
BSSM2220	Perspectives in Medical Science	3
PSCY2201	Human Behaviour (Science)	6
CHEM2000	Responsibility and Ethics in Science	3

**Total 48**

Students can elect to replace the courses BSSM2220 and CHEM2000 with ANAT3121 Visceral Anatomy. Other proposed changes or additions to the program must be approved by the Program Coordinator.

### Year 3

In Year 3, students are required to complete 48 units of credit. Students should undertake a major in Anatomy, Physiology or Biochemistry, or a double major in two of these disciplines. A major may be completed by taking at least 18 units of credit in one discipline area and fulfilling other program requirements specified for that major. Students who do **not** undertake a Biochemistry major **must** complete BIOC3261 (Human Biochemistry). Students in the combined Science and Medicine program are not able to enrol in courses in Pharmacology, Pathology or Immunology. The programs for majors in Anatomy, Biochemistry and Physiology are listed below.

### Year 4

Students usually join Year 3 of the Medicine program. However, students may apply to take Honours in the discipline of their major before proceeding to the Medicine program. 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.

**3840****Combined Arts and Medicine Program  
BA BSc(Med) MB BS**

The Arts/Medicine program is an alternative program 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 program 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 program 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 Office of the Dean as soon as possible after receiving their offer of a place in the Medicine program. Selection of students for the Arts/Medicine program 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 program as well as 60 units of credit in courses 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 courses of their Arts major sequence. In Years 2 and 3 they will complete the program for the Year 2 of the Medicine program and the remaining courses 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 program are eligible for the award of honours in the BSc(Med) MB BS degree program, based on weighted performance in courses (excluding those courses not in the normal Medicine program) throughout the combined program.

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 program in accordance with the rules applying to the Medicine program 3801.

Genetics and PHPH2018 Medical Physiology 1 must be taken in Year 2 of the BA BSc(Med) MB BS program.

BIOC2329 Medical Biochemistry and Genetics

PHPH2018 Medical Physiology 1

Upper level Arts Major sequence plus additional Arts courses

**Year 3**

The Medicine courses ANAT2007 Anatomy 2, MDSG2001 Clinical Studies 2 and PSCY2101 Human Behaviour must be taken in Year 3 plus upper level Arts courses to complete the Arts major sequence and any other Arts courses to complete the required units of credit (ie. 60).

ANAT2007 Anatomy

MDSG2001 Clinical Studies 2

PSCY2101 Human Behaviour

Upper level Arts major sequence plus additional Arts courses

**Year 4**

Students join Year 3 of the Medicine program.

**Program Details**

Students are required to undertake all BSc(Med) MB BS courses plus 60 units of credit from the Faculty of Arts (including a major sequence) during Years 1 to 3. A major sequence equals 36 units of credit (usually 12 at Level 1 and 24 at upper level). Details of all Faculty of Arts courses are given in the Arts Handbook.

**Year 1**

Students are required to complete all Medicine (program 3801) Year 1 courses (with the exception of General Education), plus all Level 1 courses of their Arts major sequence.

ANAT1006 Anatomy 1

BIOC1319 Biochemistry for Medical Students

MFAC1001 Introductory Clinical & Behavioural Studies

PHPH1004 Biology for Medical Students

Level 1 Arts major sequence

**Year 2**

Medicine Year 2 courses are to be spread over Years 2 and 3 to allow for the completion of upper level courses of their Arts major sequence, plus additional courses to complete the BA component. The Medicine courses BIOC2329 Medical Biochemistry and

## 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 Office of the Dean 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 program 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 program 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

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

1. A weighted average mark for each year of the program is determined. This year mark is obtained by weighting each of the courses in the year, according to the units of credit. The course weights for each of the years of the program are shown in Table 1.
2. The overall program 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 course 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 program mark for BSc MB BS students, the aggregate mark for the Science component is calculated as a weighted aggregate of all courses counted towards the Science degree. The course weights are as follows:

Level I courses weighted by a factor equal to 0.0625 per course, except General Mathematics, Fundamental of Physics and Life Science Physics (0.05 per course) and Higher Chemistry and Higher Mathematics (0.07 per course).

**Level II** courses weighted by 0.1875 per course.

**Level III** courses weighted by 0.25 per course.

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

The three years of BSc component of the BSc MB BS program are treated as equivalent to the first two years of the MB BS program 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 144 units of credit in the BSc component are considered in calculating the ranked score.

6. Honours calculation for students undertaking the BA BSc(Med) MB BS program is the same as for the BSc(Med) MB BS program, ie. the courses in the BA component are not counted.

7. Provision is made for students admitted with advanced standing and/or exemptions in certain courses 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 program mark.
3. As a guide, the distribution of the awards of honours in 1999 was:

**Class I Honours**  
Program Mark: 71.1%–77.4%  
Number of Awards: 20  
Percent of graduands: 12.2%

**Class II Div. I**  
Program Mark: 68.3%–71.0%  
Number of Awards: 20  
Percent of graduands: 12.2%

**Class II Div. II**  
Program Mark: 67.00%–68.2%  
Number of Awards: 24  
Percent of graduands: 14.6%

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

	Course Weights
<b>Year 1</b>	
Anatomy	12
Introductory Clinical and Behavioural Studies	8
Biology for Medical Students	4
Biochemistry for Medical Students	12
<b>Year 2</b>	
Medical Biochemistry and Genetics	8
Anatomy 2	14
Medical Physiology 1	16
Human Behaviour	6
<b>Year 3</b>	
Microbiology for Medical Students	8
Pathology	10
Medical Physiology 2	8
Medical Pharmacology	10
Clinical Studies 3	8
Medical Ethics and Health Law	4
<b>Year 4</b>	
Integrated Clinical and Community Studies	48
<b>Year 5</b>	
Obstetrics & Gynaecology	12
Paediatrics	12
Psychiatry	12
Geriatrics/General Practice/Subspecialties	12
<b>Year 6</b>	
Integrated Clinical Studies 6	44

**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 program 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 program 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 Programs 3801 and 3840

1.(a) Undergraduates who have successfully completed at least the first three years of the six year Medicine program 3801 or at least the first four years of the seven year Arts/Medicine program 3840 may enrol for the degree of BSc(Med)Hons in one of the following courses: Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, Physiology, Psychology or in any other course approved by the BSc(Med)Hons Committee provided that the candidate's performance in the area subject 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 course 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 Physiology and Pharmacology

## 3850

## Bachelor of Science in Health and Sports Science BSc

### Program Authority

Dr David Garlick  
Sports Medicine/Sports Science Programs  
School of Physiology & Pharmacology  
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### Manager of Sports Medicine/ Sports Science Programs

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### Health & Sports Science Project Officer

Peter Ryan (Room M-205 Samuels Building)  
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### Program Requirements

This program in health and sports science offers a comprehensive education in the area of health and sports science. Four years of full-time study, or the part time equivalent part-time study leads to the award of a Bachelor of Science (in Health and Sports Science) with an Honours program available for students who perform with merit. Part-time students will undertake a reduced program subject to the session availability of courses. Only in exceptional circumstances will full-time students be allowed to enrol in a reduced program for a year, requiring the permission of the Head of School of Physiology and Pharmacology. A total of 192 units of credit must be successfully completed for the award of this degree.

### Program Objectives

The program is designed upon the strengths of the Faculty of Medicine in which it is uniquely placed as a sports science degree in Australia. Graduates may expect to find employment in sports medicine clinics, rehabilitation clinics and hospitals; Commonwealth, State and Local Government departments, sports academies and institutes, professional organisations, sporting associations, universities, corporate health; gymnasiums and fitness centres, and private practice. In addition it is expected that graduates become members of the professional body: Australian Association of Exercise and Sports Science.



Stage 1 introduces students to the core science that will serve as a solid foundation for the following years. Subjects in this include chemistry, mathematics, statistics, biology and psychology. A series of seminars will run throughout this year and will expose students to the industries that offer employment for graduates. Stage 2 of the program begins to focus on human anatomy, physiology and biochemistry biomechanics, sport psychology and nutrition while building on the scientific principle acquired in Stage 1. Stage 3 of this multi-disciplinary program moves the student towards a holistic understanding of health and exercise as it offers increasing complexity of course material: exercise and cardio-respiratory physiology, endocrinology, musculoskeletal physiology, functional anatomy, biomechanics, health psychology, and motor control & function. Stage 4 continues to develop multi-disciplinary expertise through use of specialised courses. Extensive coordinated and structured industry experience is a key component of this final year. Students choose from a selection of courses in their fourth year to aid their graduate employment strategies. Understanding of scientific method is a key component of this course. A major project in final semester will feature as an expression of this understanding through research. General education is a requirement of all undergraduate courses at this university and may be taken in stages 2, 3 and 4.

**Stage 1**

Session 1	UOC
CHEM1011 Fundamentals of Chemistry A	6
CHEM1031 or Higher Chemistry C	6
MATH1031 Mathematics for Life Sciences	6
PSYC1001 Psychology 1A	6
BIOS1201 Molecules, Cells and Genes	6

**Session 2**

CHEM1021 Fundamentals of Chemistry B or	6
CHEM1041 Higher Chemistry D	6
MATH1041 Statistics for Life and Social Sciences	6
PSYC1011 Psychology 1B	6
PHPH1501 Health and Physical Activity	6

**Total** **48**

**Stage 2**

Session 1	UOC
BIOC2181 Fundamentals of Biochemistry or	6
BIOC2101 Principles of Biochemistry (Advanced)	6
ANAT2111 Introductory Anatomy	6
PHPH2501 Physiology for Health & Sports Science A	6
SESC2451 Biomechanics for Sports Scientists	6

**Session 2**

PHPH2502 Physiology for Health & Sports Science B	6
FOOD3220 Nutrition	6
PSYC2126 Sports Psychology	6
GENSxxxx General Education Subjects	3

**Total** **48**

**Stage 3**

Session 1	UOC
ANAT3131 Functional Anatomy 1	6
ANAT3531 or Functional Anatomy 1 (Adv)	6
SESC3451 Human Movement Measurement Methods	6
PHPH3501 Brain Mechanisms in Sensory Motor Integration	6
PHPH3502 Skeletal Muscle in Health and Exercise	6

**Session 2**

ANAT3141 Functional Anatomy 2	6
ANAT3541 or Functional Anatomy 2 (Adv)	6
PSYC3536 Health Psychology	6
PHPH3503 Exercise and Cardio-respiratory Systems	6
PHPH3504 Endocrines and Exercise	3
GENSxxxx General Education Subjects	3

**Total** **48**

**Stage 4 core**

Session 1	UOC
PHPH4501 Introductory Research Methods	3
PHPH4502 Principles of Pharmacology	3
PATH2201 Processes in Disease	6
PHPH4503 Practicum A	6

**Session 2**

PHPH4504 Practicum B	6
PHPH4505 Research Project	6
PHPH4506 Drugs in Sport (Effects and Interaction)	3
GENSxxxx General Education Subjects	3

**Total (including electives)** **48**

**Stage 4 electives****Session 1**

PHPH3151 Introductory Pharmacology and Toxicology	6
PHPH4511 Sports Management	3
PAED4560 Paediatric Exercise Science	6
BIOM9541 Mechanics of the Human Body	6
SESC9400 Ergonomics 1	3
FOOD3440 Advanced Nutrition	6
CMED9516 Introduction to Public Health	4

**Session 2**

PHPH4507 Drugs in Sport (Effects, Interactions & Testing)	6
PHPH4512 Circadian Rhythms: Sleep Physiology and Pathophysiology	3
SESC9410 Ergonomics II	3
PATH3207 Musculoskeletal Diseases	6
ELEC9405 Human Movement Control Topics	6

**Notes on Stage 4**

**Core:** Students must complete courses in Pharmacology and Drugs in Sport. Students must complete PHPH4502 or PHPH3151 in session 1 and PHPH4506 or PHPH4507 in session 2.

**Electives:** Students must choose from the available electives, so as to provide a total of 48 Units of Credit in Stage 4.

**Units of Credit:**

Stage 1, 48; Stage 2, 48; Stage 3, 48; Stage 4, 48.

Total Units of Credit for the Program = 192

Full-time program load equivalence (EFTSU) = 1.



# Course Descriptions

## Units of Credit

From January 2000 the university will move to a new academic structure based on units of credit. A full time enrolment for one year is defined as 48 units of credit (24 per semester). A course will have the same unit of credit value and generate the same load for HECS and fees irrespective of the program or stage in which it is taken. All courses will be measured in whole units of credit. The normal workload expectations are 25 - 30 hours per semester for each unit of credit, including class contact hours, preparation and time spent on all assessable work.

## Summary of Compulsory Undergraduate Courses

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

<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>MDSG6001</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>MICR3228</b> <b>Microbiology for Medical Students</b>	<b>Year 3</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 Courses only:** taught within programs offered by other faculties.

### ANAT2111

#### Introductory Anatomy

*Staff Contact:* Dr B Freeman

UOC6 HPW6 S1

*Prerequisite/s:* BIOS1101, BIOS1201 or BIOM9010

Introduction to gross anatomy of the whole body, based on a study of prosected specimens. General topographical and systematic anatomy, musculoskeletal, cardiovascular, respiratory, gastrointestinal, genitourinary and nervous systems. This course is designed for students who wish to proceed to Level III studies, or a major, in Anatomy.

### ANAT2151

#### Introductory Functional Anatomy

*Staff Contact:* Associate Professor Kenneth Ashwell

UOC3 HPW3 S1

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 musculoskeletal system, central and peripheral nervous systems, circulatory, respiratory, gastrointestinal, endocrine and urogenital systems. Offered as a distance-education course, or on campus if enrolments are sufficient.

### ANAT2200

#### Basic Histology

*Staff Contact:* Professor Phil Waite

UOC3 HPW3 S1

*Prerequisite/s:* BIOS1101, BIOS1201

The course provides an overview of the structure of mammalian cells and their organisation into tissues. Topics include the use of the light microscope, the preparation of tissues and the recognition of artefacts. Morphology of epithelial, connective, muscular and nervous tissues will be compared with emphasis on the practical recognition of cell types and the correlation of structure and function.

### ANAT2210

#### Systems Histology

*Staff Contact:* Professor Phil Waite

UOC3 HPW3 S2

*Prerequisite/s:* ANAT2200 or ANAT2511

The course includes the histological examination of the major body systems: cardiovascular, respiratory, lymphatic, integumentary, digestive, endocrine, urinary, reproductive and nervous systems. Emphasis is on integrating the microscopic structure of organs with their function and with abnormalities, which occur in common disease processes.

**ANAT2300****Vertebrate Development A***Staff Contact:* Dr Mark Hill

UOC3 HPW3 S1

*Corequisite/s:* ANAT2200, ANAT2111 or ANAT2511

This course will cover the morphological and molecular mechanisms of segmentation and patterning responsible for organising the vertebrate body plan in the embryo. Topics will include the molecular, genetic and cellular approaches to the study of human embryology using four main vertebrate systems: frog, fish, chick and mouse.

**ANAT2310****Vertebrate Development B***Staff Contact:* Dr Mark Hill

UOC3 HPW3 S2

*Prerequisite/s:* ANAT2300

The course will cover fetal development through to birth, including the developmental anatomy of the organ systems. The course will examine the common principles and differences that underlie normal and abnormal development of vertebrates: specifically, the roles of cell differentiation, proliferation and migration, target recognition, interaction in the nervous system, axial polarity, cell adhesion, cell fate and signalling in development. Emerging technologies, such as genomic analysis and the use of transgenic and dysfunctional mouse mutants in research, will be covered.

**ANAT2511****Fundamentals of Anatomy***Staff Contact:* Dr Elizabeth Tancred

UOC6 HPW6 S2

*Excluded:* ANAT2111, ANAT2200, ANAT2151

This course provides an introduction to the fundamental principles of human structure. It includes an introduction to the histology of basic tissues; an overview of the functional anatomy of the major body systems; human development, growth and aging; human evolution; body imaging. This course is designed for students who do not plan to major in Anatomy, but may be used as a prerequisite for ANAT3411 Neuroanatomy and, in exceptional circumstances, for ANAT3121 Visceral Anatomy.

**Anatomy Level III****ANAT3121****Visceral Anatomy***Staff Contact:* Associate Professor Kenneth Ashwell

UOC6 HPW6 S2

*Prerequisite/s:* ANAT2111 (ANAT2511)

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

**ANAT3131****Functional Anatomy 1***Staff Contact:* Dr Priti Pandey

UOC6 HPW6 S1

*Prerequisite/s:* 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:* Dr Dzong Vu

UOC6 HPW6 S2

*Prerequisite/s:* 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 Mark Hill

UOC6 HPW4 S1 S2

*Prerequisite/s:* ANAT2200

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. Session in which course will run to be determined.

**ANAT3411****Neuroanatomy***Staff Contact:* Dr Elizabeth Tancred

UOC6 HPW6 S1

*Prerequisite/s:* ANAT2200 and ANAT2111 or ANAT2511

Provides an overview of the anatomical organisation of the central nervous system. Topics covered include: cytoarchitecture of brain and spinal cord; functional anatomy of sensory and motor systems and higher cerebral functions such as language and emotions; blood supply of the central nervous system; cerebrospinal fluid and meninges.

**ANAT3421****Neuroscience Research Seminars***Staff Contact:* Dr P Carrive

UOC6 HPW3 S2

*Prerequisite/s:* ANAT3411 or PHPH3531

Focuses on selected areas of contemporary neuroscience research interest. Includes: brain development and axon guidance, peripheral nerve regeneration, spinal cord injury, pain pathways, central control of cardiovascular function, cortical plasticity, brain imaging, mechanisms of learning and memory, motor systems and the neuropathology of degenerative disorders. The course 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.

**ANAT3531****Functional Anatomy 1 (Adv)***Staff Contact:* Dr Priti Pandey

UOC6 HPW6 S1

*Prerequisite/s:* 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. This course will include an assessable detailed dissection program, incorporating submission of a report based on drawings of the student's work and a review of literature within the subject area.

**ANAT3541****Functional Anatomy 2 (Adv)***Staff Contact:* Dr Dzong Vu

UOC6 HPW6 S2

*Prerequisite/s:* ANAT3531

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. This course will include an assessable research affiliation program, incorporating discussion and evaluation of a research project, and submission of a research report based on literature within the subject area.

**ANAT3631****Cell Biology (Adv)***Staff Contact:* Dr Mark Hill

UOC6 HPW4 S1 S2

*Prerequisite/s:* ANAT2200

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. This course will include an assessable research affiliation program, incorporating discussion and evaluation of a research project, and submission of a research report based on literature within the subject area. Session in which course will run to be determined.

#### **ANAT4508**

##### **Anatomy 4**

*Staff Contact:* Associate Professor Kenneth Ashwell

Enrolment Requires School approval

UOC6 S1 S2

*Prerequisite/s:* Completion of the first three years of any Science program with a major in Anatomy.

An honours program consisting of the preparation of a research thesis and participation in School seminars.

## **Biochemistry**

#### **BIOC2101**

##### **Principles of Biochemistry (Advanced)**

*Staff Contact:* School Office

UOC6 HPW6 S1

*Prerequisite/s:* BIOS1101, BIOS1201, CHEM1101, CHEM1201;

*Excluded:* BIOC1319, BIOC2181, CHEM2929.

Introduces modern biochemistry, covers fundamental aspects of the structure-function relationships of proteins and an overall coverage of intermediary metabolism. Major topics covered include: the nature and function of proteins and 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 hormones in 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.

*Note/s:* Enrolment in this course may be subject to quota restrictions. Such restrictions will only apply to students taking this course as an elective part of their program.

#### **BIOC2181**

##### **Fundamentals of Biochemistry**

*Staff Contact:* Dr Aldo Bagnara

UOC6 HPW6 S1

*Prerequisite/s:* BIOS1101, BIOS1201, CHEM1101, CHEM1201;

*Excluded:* BIOC1319, BIOC2101, CHEM2929.

Introduces modern biochemistry, covers fundamental aspects of the structure-function relationships of proteins and an overall coverage of intermediary metabolism. Major topics covered include: the nature and functions of enzymes; the metabolic working of cells, tissues and organs; the interrelationships between pathways of carbohydrate, lipid and amino acid metabolism; the vital roles 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. This subject covers essentially the same material as in BIOC2101 Principles of Biochemistry (Advanced), but in less detail and with more emphasis on the function of organisms and less emphasis on some of the underlying chemical mechanisms.

*Note/s:* This course provides a comprehensive introduction to Biochemistry as an alternative to BIOC2101 for students who do not intend to proceed to Level III Biochemistry. It does not fulfill the prerequisite requirements for Level III Biochemistry but the Head of School may give approval for students with a grade of credit to enrol in Level III courses.

#### **BIOC2201**

##### **Principles of Molecular Biology (Advanced)**

*Staff Contact:* Associate Professor Thomas Stewart

UOC6 HPW6 S2

*Prerequisite/s:* BIOS1101, BIOS1201, CHEM1101, CHEM1201;

*Excluded:* BIOC2291.

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 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.

*Note/s:* Enrolment in this course may be subject to quota restrictions. Such restrictions will only apply to students taking this course as an elective part of their plan.

#### **BIOC3111**

##### **Molecular Biology of Proteins**

*Staff Contact:* Mr Garry King

UOC6 HPW6 S1

*Prerequisite/s:* BIOC2101, BIOC2201, CHEM2021 or CHEM2041

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 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 Lutze-Mann

UOC6 HPW6 S1

*Prerequisite/s:* BIOC2101, BIOC2201, CHEM2021 or CHEM2041

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 molecular techniques.

#### **BIOC3261**

##### **Human Biochemistry**

*Staff Contact:* Dr Aldo Bagnara

UOC6 HPW6 S2

*Prerequisite/s:* BIOC2101, BIOC2201

Covers the aspects of metabolism that are of particular relevance to the human. The major topics 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. 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:* Dr Lutze-Mann

UOC6 HPW6 S2

*Prerequisite/s:* BIOC2101, BIOC2201

Cell biology from a molecular viewpoint. Biochemical aspects of cellular organisation. 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. Practical work amplifies the lectures.

**BIOC3281****Recombinant DNA Techniques and Eukaryotic Biology***Staff Contact:* School Office

UOC6 HPW6 S2

*Prerequisite/s:* 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

**BIOS1101****Evolutionary and Functional Biology***Staff Contact:* Associate Professor P Adam

UOC6 HPW5 S2

The course examines the evolutionary history of life on earth from origins to humans and the relationship between environment, adaptation and function. Animal (particularly human) and plant physiology are covered with an emphasis placed on adaptation to Australian context.

**Note/s:** Practical and tutorial seat assignments must be obtained at the Biological Science Student Office (Rm G27 Biological Sciences Bld) BEFORE Session 2 starts. The Course Guide is available for purchase at the same time.

**BIOS1201****Molecules, Cells and Genes***Staff Contact:* Associate Professor Adam

UOC6 HPW5 S1

The course is concerned with the basic characteristics of all life. The chemistry of life is covered with emphasis on the ways 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 course. The final topic is genetics - the way in which the genetic code is inherited and the ways in which it can be modified.

**Note/s:** ed Knowledge: HSC Exam Score: Physics 53-100, or Chemistry 53-100, or Geology 53-100, or Biology 53-100, or 3 unit Science 90-150, or 4 unit Science 1-50. Assumed knowledge for BIOS1201 is minimal. If you believe that your academic background is not appropriate, but would like to do Biology, please consult the Director. 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. The course commences in Week 1.

**BIOS2031****Biology of Invertebrates***Staff Contact:* Associate Professor Greenaway

UOC6 HPW5 S2

Emphasis on major phyla and marine forms. Practical work includes anatomy of living and preserved specimens (including dissections), the pragmatic use of identification keys and how animals adapt to the environment. Personal expenses will be incurred.

**Note/s:** ed Knowledge: BIOS1101 and BIOS1201. Enrolment in this course may be subject to quota restrictions. Such restrictions will only apply to students taking this course as an elective. There is a compulsory field camp during mid session break.

**BIOS2061****Vertebrate Zoology***Staff Contact:* Dr Banks

UOC6 HPW5 S1

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.

**Note/s:** ed Knowledge: BIOS1101 and BIOS1201. Practical class allocations must be obtained during re-enrolment week from room G21, Biological Science Building. Enrolment in this course may be subject to quota restrictions. Such restrictions will only apply to students taking this course as an elective.

**BSSM1110****Perspectives in Medical Science 1***Staff Contact:* School Office

UOC3 HPW2 S2

In this course we examine the historical background to the advent of scientific medicine in the 19<sup>th</sup> and 20<sup>th</sup> centuries, looking particularly at the intellectual climate which made such innovations possible. This course is only available for students enrolled in program 3991 Bachelor of Medical Science and program 3821 Science/Medicine.

**Assessment:** Essay; tutorial paper and participation; open book class test. For information regarding this course please contact the School of Science and Technology Studies.

**BSSM2220****Perspectives in Medical Science 2***Staff Contact:* School Office

UOC3 HPW2 S2

This course is based on a series of colloquia given by visiting specialists on topics of historical, philosophical and contemporary relevance in medical science. The course is only available for students enrolled in program 3991 Bachelor of Medical Science and program 3821 Science/ Medicine. For further information regarding this course, please contact the School of Physiology and Pharmacology or the School of Anatomy.

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## Chemistry

**CHEM1011****Fundamentals of Chemistry 1A***Staff Contact:* Dr Peter Chia

UOC6 HPW6 S1 S2

Elements, compounds and stoichiometry. Basic atomic structure and periodicity. Properties of gases. Thermodynamics (1st Law). Reactions classes. Equilibrium. Acids and bases. Behaviour of oxides, hydroxides, halides. Reactions of organic compounds.

**CHEM1021****Fundamentals of Chemistry 1B***Staff Contact:* Dr Peter Chia

UOC6 HPW6 X1 S2

*Prerequisite/s:* CHEM1011

Atomic and molecular structure. Properties of solutions. Solids and solubilities. Aqueous chemistry. Thermodynamics (2nd Law). Electrochemistry. Mechanisms in organic chemistry.

**CHEM1031****Higher Chemistry 1C***Staff Contact:* Dr Peter Chia

UOC6 HPW6 S1

Atomic structure and periodicity. Structure and shapes of molecules. Chemical reactions, rates and mechanisms. Reactions of organic compounds. Includes advanced laboratory work.

Assumed Knowledge: Equivalent to a good standard in high school chemistry (HSC 2 unit chemistry [75 - 100] or equivalent).

**CHEM1041****Higher Chemistry 1D***Staff Contact:* Dr Peter Chia

UOC6 HPW6 S2

*Prerequisite/s:* CHEM1031

Properties of gases. Atmospheric chemistry. Properties of liquids and solids. Solubility and properties of solutions. Thermodynamics and equilibrium. Aqueous chemistry. Electrochemistry. Includes advanced laboratory work.

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## Food Science and Technology

**FOOD3220****Nutrition***Staff Contact:* Dr Arcot

UOC6 HPW6 S2

*Prerequisite/s:* BIOC2101 or BIOC2181

This course consists of a series of lectures and practical exercises that provide students with knowledge about the occurrence of nutrients in foods and their role in human physiology, health and disease. Structure, properties and sources of nutrients. Role of nutrients in human structure and function. Introduction to food groups, tables of food composition, food labels, dietary recommendations. Food guides. Nutrition in health and disease. Nutritional needs of vulnerable groups: infants, pregnant and lactating women, the aged. Dietary intolerance, disorders related to the affluent diet including coronary heart disease, dental caries, diabetes, hypertension and cancer. Problems of undernutrition including protein, energy, mineral and vitamin deficiencies. Physiological and nutritional aspects of dietary fibre, alcohol. Assessment of nutritional status using dietary and anthropometric techniques. Practical exercises on anthropometric techniques and measurement of nutrient intake using computer systems on an individual and group basis.

**FOOD3440****Advanced Nutrition***Staff Contact:* Dr Arcot

UOC6 HPW6 S1

*Prerequisite/s:* FOOD3220

This course consists of lecture and discussion classes that build on the basic concepts of nutrition with respect to the food supply, giving advanced treatment of the following topics. Food and nutrition policy: structure of the population. Food supplies, food consumption, nutritional epidemiology. Population dietary references. Food programs such as food fortification, supplementary feeding schemes, nutritional rehabilitation, nutritionally modified foods, nutritional regulations and standards, nutrition education, dietary and nutrition interventions (ORT, family planning, infection control, growth monitoring). Principles, practice and evaluation of applied nutrition programs. Advanced assessment methods in nutrition: nutrient bioavailability studies, nitrogen balance tests, vitamin load

tests, sodium and potassium excretion, creatinine excretion, fitness assessment, biochemical assessment, design and evaluation of nutritional epidemiology studies, food intake studies.

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## Mathematics

**MATH1011****General Mathematics 1B***Staff Contact:* School Office

UOC6 HPW6 S1 S2

*Excluded:* MATH1031, MATH1131, MATH1141, MATH1151, ECON1202, 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.

Assumed Knowledge: A level of knowledge equivalent to achieving a mark of at least 60 in HSC 2 unit Mathematics. This refers to the 2 unit Mathematics subject which is related to the 3 unit Mathematics subject. Students who have taken 2 unit Mathematics in Society or Mathematics in Practice will not have achieved the level of knowledge which is assumed in this course.

**MATH1021****General Mathematics 1C***Staff Contact:* School Office

UOC6 HPW6 X1 S2

*Prerequisite/s:* MATH1011 or MATH1131 or MATH1141;*Excluded:* MATH1031, MATH1231, MATH1241, MATH1251, ECON1202, 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.

**MATH1031****Mathematics for Life Sciences***Staff Contact:* School Office

UOC6 HPW6 S1

*Excluded:* MATH1011, MATH1021, MATH1131, MATH1141, MATH1151, MATH1231, MATH1241, MATH1251, ECON1202, ECON2291

Matrices and systems of linear equations. Functions and modelling. Differentiation. Exponentials and logarithms. Analysis of functions (limiting behaviour, maxima and minima, locating zeros). Functions of several variables. Interpolation and approximation. Discrete time dynamical systems. Complex numbers. Integration. Differential equations.

Assumed Knowledge: A level of knowledge equivalent to achieving a mark of at least 60 in HSC 2 unit Mathematics. This refers to the 2 unit Mathematics subject which is related to the 3 unit Mathematics subject. Students who have taken 2 unit Mathematics in Society or Mathematics in Practice will not have achieved the level of knowledge which is assumed in this course.

**MATH1041****Statistics for Life and Social Sciences***Staff Contact:* School Office

UOC6 HPW6 S2

*Excluded:* MATH2819, MATH2870, MATH2889, ECON1203, ECON2292

Probability, random variables, independence. Discrete distributions, Poisson and binomial distributions. Data analysis, Descriptive statistics. Sampling, Continuous distributions, the normal distribution. Estimation of mean and variance. Tests of hypotheses. Linear regression and correlation. Analysis of variance. Tests for goodness of fit. Bayesian statistics.

**MATH1131****Mathematics 1A***Staff Contact:* School Office

UOC6 HPW6 S1 S2

*Excluded:* MATH1011, MATH1031, MATH1141, MATH1151, ECON1202, 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.

Assumed Knowledge:HSC 3 unit Mathematics. Students will be expected to have achieved a combined mark of at least 100 in 2 unit and 3 unit Mathematics.

**MATH1141****Higher Mathematics 1A***Staff Contact:* School Office

UOC6 HPW6 S1

*Excluded:* MATH1011, MATH1031, MATH1131, MATH1151, ECON1202, ECON2291

As for MATH1131 but in greater depth.

Assumed Knowledge:HSC 4 unit Mathematics. Students will be expected to have achieved a combined mark of at least 186 in 3 unit and 4 unit Mathematics.

**MATH1231****Mathematics 1B***Staff Contact:* School Office

UOC6 HPW6 X1 S2

*Prerequisite/s:* MATH1131 or MATH1141;*Excluded:* MATH1021, MATH1031, MATH1241, MATH1251, ECON1202, ECON2291.

Vector spaces, linear transformations, eigenvalues and eigenvectors. Probability. Integration techniques, solution of ordinary differential equations, sequences, series, applications of integration.

**MATH1241****Higher Mathematics 1B***Staff Contact:* School Office

UOC6 HPW6 S2

*Prerequisite/s:* MATH1131 CR or MATH1141CR;*Excluded:* MATH1021, MATH1031, MATH1231, MATH1251, ECON1202, ECON2291.

As for MATH1231 but in greater depth.

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**Pathology****Pathology Level II****PATH2201****Processes in Disease***Staff Contact:* Dr Mark Dziegielewski

UOC6 HPW4 S2

*Prerequisite/s:* BIOS1101, BIOS1201. Any two of ANAT2200, ANAT2111, PHPH2101 or BIOC2101/BIOC2181

Lectures, tutorials and museum study sessions aimed at increasing understanding of important disease processes. Comparisons between normal and abnormal cell, tissue and organ function will be made. Includes processes of cell and tissue degeneration, acute and chronic inflammation, regeneration and repair, infection, atherosclerosis, thrombosis, embolism and infarction. Particular examples include diseases of practical importance such as pneumonia, tuberculosis, pulmonary embolism and myocardial infarction. Aberrations of cell growth introduces neoplasia with examples of common tumours.

**Pathology Level III****PATH3205****Molecular Basis of Disease A***Staff Contact:* Dr Miles Davenport

UOC6 HPW4 S1

*Prerequisite/s:* PATH2201

Recent advances in understanding molecular mechanisms of acute and chronic inflammation, allergy, autoimmune diseases, atherosclerosis and thrombosis. Detailed discussion of mediators of these processes, including cytokines and growth factors. Systemic pathology of the cardiovascular and respiratory systems, with an emphasis on ischaemic heart disease and asthma. Laboratory classes introduce modern research and diagnostic techniques.

**Note/s:** Students are advised that previous and concurrent study of Anatomy, Physiology, Biochemistry or Immunology would be an advantage.

**PATH3206****Molecular Basis of Disease B***Staff Contact:* Dr Mark Dziegielewski

UOC6 HPW4 S2

*Prerequisite/s:* PATH3205

Recent advances in understanding the pathogenetic mechanisms underlying congenital disorders and neoplasia. Detailed discussion of molecular carcinogenesis, the metastatic process and techniques for diagnosing congenital diseases. Common tumours, with an emphasis on colorectal, breast, prostate and cervical carcinoma. Systemic pathology of the gastrointestinal, genitourinary and central nervous systems, including peptic ulcer disease, liver disorders, glomerulonephritis, and Alzheimer disease.

**Note/s:** Advantage in having undertaken previous study in ANAT3231-Cell Biology

**PATH3207****Musculoskeletal Diseases***Staff Contact:* Dr Mark Dziegielewski

UOC6 HPW4 S2

*Prerequisite/s:* PATH2201, ANAT2111 or ANAT2511

Current scientific concepts of musculoskeletal diseases including arthritis, metabolic bone disease, primary and secondary bone neoplasms and neuromuscular disease. Detailed coverage of fracture healing and its complications and of biomaterials and prosthetic devices relevant to orthopaedic applications.

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**Medicine**

Servicing Course only: taught within a program offered by another faculty.

**MDCN8001****Principles of Medicine for Optometry Students***Staff Contact:* Associate Professor Leon Simons

UOC2 HPW3 S1

An overview of historical, epidemiological, pathophysiological, diagnostic, therapeutic and public health aspects of disease in man and the various clinical categories of practice. Specific topics in eye health are also covered.

**Note/s:** Students normally take the course in Year 4 of course 3950. Restricted to program 3950.



**Pathology Level IV****PATH0005****Pathology Honours Full-time***Staff Contact: Professor C Geczy*Enrolment requires School approval  
UOC48 S1 S2

Research component of thesis: basic mechanisms of human disease processes, including inflammation, rheumatoid arthritis, asthma, uveitis, infection, bone and biomaterials, tumor biology, vascular biology, atherosclerosis and genetics. Projects can include techniques such as tissue culture and cell biology, microbiology and genetics, protein chemistry, histology and microscopy, immunology and enzymology. Projects may be undertaken within the School of Pathology or at a laboratory of an affiliated institute or hospital department associated with the School.

**PATH0006****Pathology Honours Part-time***Staff Contact: Professor C Geczy*Enrolment requires School approval  
UOC24 S1 S2

Research component of thesis: basic mechanisms of human disease processes, including inflammation, rheumatoid arthritis, asthma, uveitis, infection, bone and biomaterials, tumor biology, vascular biology, atherosclerosis and genetics. Projects can include techniques such as tissue culture and cell biology, microbiology and genetics, protein chemistry, histology and microscopy, immunology and enzymology. Projects may be undertaken within the School of Pathology or at a laboratory of an affiliated institute or hospital department associated with the School.

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**Physiology and Pharmacology**
**PHPH1501****Health and Physical Activity***Staff Contact: Dr David Garlick*

UOC6 S2

*Prerequisite/s:* BIOC1201*Excluded:* Restricted to students enrolled in Program 3850

The course deals with concepts of health, physical activity and fitness. The effects to physical activity are described in relation to children, the older subject and to conditions such as obesity, diabetes and mental states. A range of fitness tests are described. An analysis of the ethical relationships between the professional, and the development of ethical processes in business, research and education will be explored.

**PHPH2101****Physiology 1A***Staff Contact: Dr Joe Simonetta*

UOC6 HPW6 S1

Introduces fundamental physiological principles, from basic cellular function in terms of chemical and physical principles to the operation and interaction of body systems. The areas of physiology covered in this unit are excitable tissues, the cardiovascular system, blood and neuroscience. The unit 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.

**Note/s:** Students intending to major in Physiology and/or Pharmacology should note Level III prerequisites which can be only be waved at the discretion of the Head of School.

**PHPH2121****Principles of Physiology A***Staff Contact: Dr Joe Simonetta*

UOC6 HPW6 S1

Provides an introduction to fundamental physiological principles for students in BOptom. degree course. The areas of physiology covered in this unit are excitable tissues, the cardiovascular system, blood and neuroscience, and includes a series of practical class experiments on these different areas of physiology.

**Note/s:** Restricted to students enrolled in BOptom degree course.

**PHPH2201****Physiology 1B***Staff Contact: Dr Joe Simonetta*

UOC6 HPW6 S2

*Prerequisite/s:* PHPH2101

The Areas of Physiology covered in this unit build on the fundamental physiological principles introduced in PHPH2101 Physiology 1A. The topics covered include reproduction, the respiratory system, the gastrointestinal system, kidney and body fluids and the endocrine system. This unit 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.

**Note/s:** Students intending to major in Physiology and/or Pharmacology should note Level III Physiology prerequisites which can be waved at the discretion of the Head of School.

**PHPH2221****Principles of Physiology B***Staff Contact: Dr Joe Simonetta*

UOC6 HPW6 S2

The area of physiology covered in this unit build on the fundamental physiological principles introduced in PHPH2121 Principles of Physiology A. This unit includes a series of practical class experiments on these different areas of physiology.

**Note/s:** Restricted to students enrolled in BOptom degree course.

**PHPH2501****Physiology for Health and Sports Science A***Staff Contact: School Office*

UOC6 S1

*Prerequisite/s:* BIOS1201, PHPH1501, 12 units of credit of Level 1 Chemistry, MATH1031, MATH1041,

Introduces fundamental physiological principles, from basic cellular function in terms of chemical and physical principles to the operation and interaction of body systems. The areas of physiology covered in this unit are excitable tissues, the cardiovascular system, blood and neuroscience. The unit includes a substantial series of practical class experiments on these different areas of physiology.

**PHPH2502****Physiology for Health and Sports Science B***Staff Contact: School Office*

UOC6 S2

*Prerequisite/s:* PHPH2501.

The areas of physiology covered in this unit build on the fundamental physiological principles introduced in PHPH2501 (Physiology for Health and Sports Science A). The topics covered include reproduction, the respiratory system, the gastrointestinal system, kidney and body fluids and the endocrine system. Again this unit includes a substantial series of practical class experiments on these different areas of physiology.

**PHPH3121****Membrane and Cellular Physiology***Staff Contact: Professor Peter Barry*

UOC6 HPW6 S1

*Prerequisite/s:* PHPH2101

The properties of cell membranes and the role of channels and transporters in permeation and transport of ions, solutes and water across membranes, in the generation of electrical signals in nerve and muscle cells, in synaptic transmission and in second messenger pathways and their part in cellular function. Includes understanding modern techniques, such as patch clamping, used to study the properties of individual ionic channels and site-directed mutagenesis and other molecular biological techniques, used to investigate the relationship between the molecular structure of appropriate proteins and physiological function. Includes the properties of water channels and epithelial transport, the mechanisms underlying muscle contraction and disease states resulting from such things as genetic defects in ion channels. It should provide a foundation for understanding higher physiological systems.

**PHPH3131****Neurophysiology***Staff Contact:* Professor Mark Rowe

UOC6 HPW6 S1

*Prerequisite/s:* PHPH2101

Brain mechanisms in sensation and perception are analyzed in detail for vision, hearing and touch, and for the position sense arising from muscles, joints and the vestibular apparatus. The sensorimotor mechanisms responsible for the control of fine movement and postural regulation are also studied at different levels of the nervous system, from the sensory and motor nerves within muscles through to the highest levels of cerebral cortical function. Segments are also included on the 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, and in seminar-discussion groups to a critical evaluation of neuroscience research literature.

**PHPH3151****Introductory Pharmacology and Toxicology***Staff Contact:* School Office

UOC6 HPW6 S1

*Prerequisite/s:* PHPH2101 and PHPH2201, 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.

**PHPH3211****Cardiorespiratory and Exercise Physiology***Staff Contact:* Associate Professor Michael Perry

UOC6 HPW6 S2

*Prerequisite/s:* PHPH2101, PHPH2201

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:* Professor Eugenie Lumbers

UOC6 HPW6 S2

*Prerequisite/s:* PHPH2101, PHPH2201

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.

**PHPH3251****Clinical and Experimental Pharmacology***Staff Contact:* Dr Murray

UOC6 HPW6 S2

*Prerequisite/s:* PHPH2101, PHPH2201, (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.

**PHPH3302****Pharmacology for Optometrists***Staff Contact:* Dr R Knihinicki

UOC3 HPW3 S1

*Prerequisite/s:* OPTM2301, OPTM2302, OPTM2105, OPTM2206, PHPH2121, PHPH2221

Objectives: To introduce optometry students to the mechanisms of drug action and interaction, with an emphasis on the pharmacology of the eye. Pharmacodynamics, pharmacokinetics and toxicology of drugs used in the diagnosis and treatment of eye conditions; side effects of drugs used to treat systemic disease. Legal aspects of drugs.

**PHPH3501****Brain Mechanisms and Sensory-Motor Integration***Staff Contact:* Professor Mark Rowe

UOC6 S2

*Prerequisite/s:* PHPH2501, PHPH2502, BIOC2181 or BIOC2101

The areas of physiology covered in this unit build on the fundamental physiological principles introduced in PHPH2501 (Physiology for Health and Sports Science A). The topics covered include reproduction, the respiratory system, the gastrointestinal.

**PHPH3502****Skeletal Muscle in Health and Exercise***Staff Contact:* Dr S Head

UOC6 S1

*Prerequisite/s:* PHPH2501, PHPH2502, BIOC2181 or BIOC2101

The structural basis for motor control is described in terms of the sensory and motor pathways and the many elements of which these are made up. The hierarchical organisation of the spinal cord, brain stem, cerebellum and cortex is illustrated and described. Some of the basic functions of the nervous system are dealt with and developmental aspects of motor control are indicated. Practical classes will include observations on the organisation of the motor cortex.

**PHPH3503****Exercise and Cardio-Respiratory Systems***Staff Contact:* Dr D Garlick

UOC6 S2

*Prerequisite/s:* PHPH2501, PHPH2502.

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 exercise capacity, preventative medicine and laboratory testing in exercise physiology involving human subjects.

**PHPH3504****Endocrine and Exercise***Staff Contact:* Professor ER Lumbers

UOC6 S2

*Prerequisite/s:* PHPH2501, PHPH2502, BIOC2181 or BIOC2101

The course will cover and extend the student's preliminary knowledge of endocrinology. Topics covered will include: neuroendocrine axis; leptin and obesity; the pineal gland; thyroid; adrenals and endocrine pancreas. The endocrine control of intermediary metabolism, bone and mineral metabolism and fluid and electrolyte balance will be studied. The endocrinology of reproduction, puberty and control of growth and development as well as the effects of ageing on endocrine function will be investigated. The impact of exercise and training on endocrine function will be emphasised.

**PHPH3511****Cardiorespiratory and Exercise Physiology (Advanced)***Staff Contact:* Associate Professor Michael Perry

UOC6 HPW6 S2

*Prerequisite/s:* PHPH2101, PHPH2201

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. Advanced Science students will do a project which has

planning (wks. 1,2,4), execution (wks. 6,7,8,9) and presentation (wks. 14).

### **PHPH3521**

#### **Membrane and Cellular Physiology (Advanced)**

*Staff Contact:* Professor Peter Barry

UOC6 HPW6 S1

*Prerequisite/s:* PHPH2101

The properties of cell membranes and the role of channels and transporters in permeation and transport of ions, solutes and water across membranes, in the generation of electrical signals in nerve and muscle cells, in synaptic transmission and in second messenger pathways and their part in cellular function. Includes understanding modern techniques, such as patch clamping, used to study the properties of individual ionic channels and site-directed mutagenesis and other molecular biological techniques, used to investigate the relationship between the molecular structure of appropriate proteins and physiological function. Included the properties of water channels and epithelial transport, the mechanisms underlying muscle contraction and disease states resulting from such things as genetic defects in ion channels. It should provide a foundation for understanding higher physiological systems. This course will include an assessable research affiliation program.

### **PHPH3531**

#### **Neurophysiology (Advanced)**

*Staff Contact:* Professor Mark Rowe

UOC6 HPW6 S1

*Prerequisite/s:* PHPH2101

Brain mechanisms in sensation and perception are analyzed in detail for vision, hearing and touch, and for the position sense arising from muscles, joints and the vestibular apparatus. The sensorimotor mechanisms responsible for the control of fine movement and postural regulation are also studied at different levels of the nervous system, from the sensory and motor nerves within muscles through to the highest levels of cerebral cortical function. Segments are also included on the 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, and in seminar-discussion groups to a critical evaluation of neuroscience research literature. The Neurophysiology (Advanced) course will involve an assessable research affiliation program based upon discussion and evaluation of a research project, and submission of a research report.

### **PHPH3551**

#### **Introductory Pharmacology and Toxicology (Advanced)**

*Staff Contact:* Dr Murray

UOC6 HPW6 S1

*Prerequisite/s:* PHPH2101, PHPH2201, BIOC2101 and BIOC2201 or BIOC2291 and BIOC2181

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. Advanced Science students will be affiliated with a research group within the School involving attendance at group meetings, seminars and the presentation of a report based on literature within the subject area.

### **PHPH3621**

#### **Endocrine, Reproductive and Developmental Physiology (Advanced)**

*Staff Contact:* Professor Eugenie Lumbers

UOC6 HPW6 S2

*Prerequisite/s:* PHPH2101, PHPH2201.

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. In the Advanced Science course students will be required to develop and investigate a research topic related to endocrinology, reproduction and/or development. The results of their research will be submitted in the form of a grant proposal, for evaluation by their peers and assessors.

### **PHPH3651**

#### **Clinical and Experimental Pharmacology (Advanced)**

*Staff Contact:* Dr Murray

UOC6 HPW6 S2

*Prerequisite/s:* PHPH2101, PHPH2201 (BIOC2101 and BIOC2201) or (BIOC2181 and BIOC2291), PHPH3551

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. Advanced Science students will be affiliated with a research group within the School involving attendance at group meetings, seminars and the presentation of a report based on literature within the subject area.

### **PHPH4218**

#### **Physiology 4 Honours Full-Time**

*Staff Contact:* Associate Professor John Morley

UOC48 S1 S2

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 departmental seminars, and to submit an essay.

### **PHPH4258**

#### **Pharmacology Honours Full-Time**

*Staff Contact:* Associate Professor John Morley

UOC48 S1 S2

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 departmental seminars, and to submit an essay.

### **PHPH4501**

#### **Introductory Research Methods**

*Staff Contact:* Dr D Garlick

UOC3 S1

This course deals with the statistical and epidemiological bases for understanding the scientific approach and for undertaking research. The student receives training in statistical software such as SPSS and learns to use the software for tests on the various levels of measurements including correlations, regressions, t-tests and analysis of variance. The student develops a research proposal during the course.

### **PHPH4502**

#### **Principles of Pharmacology**

*Staff Contact:* Professor M Murray

UOC3 S2

*Prerequisite/s:* PHPH2501, PHPH2502, BIOC2181, BIOC2101

This course included 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. This is a lecture only course.

**PHPH4503****Practicum A**

*Staff Contact:* Dr C Broderick  
UOC6 S1

The student chooses, after consultation and academic advice, to undertake a structured internship in a relevant professional area. This is done under the supervision of an agreed professional person in this area who will verify entries in a log-book recording activities and skills undertaken by the student. The student is required to submit a substantial report of the internship, together with the submission of the completed log book.

**PHPH4504****Practicum B**

*Staff Contact:* Dr J Leong  
UOC6 S2

Similar to Practicum A, the student undertakes an internship in a different or related professional area. The same requirements apply in terms of a completed log book and a substantial report.

**PHPH4505****Research Project**

*Staff Contact:* Dr D Garlick  
UOC6 S2

*Prerequisite/s:* PHPH4501.

A research proposal will have been developed in the course Introductory Research Methods (PHPH4501). In this course the student will implement the approved project in terms of reviewing the literature, applying the appropriate methods, accumulating results and processing these through the relevant statistics, discussing the results and drawing conclusions. A report is to be written in the form of a scientific paper.

**PHPH4506****Drugs in Sport (Effects and Interactions)**

*Staff Contact:* Professor ER Lumbers  
UOC3 S2

*Prerequisite/s:* PHPH4502 or PHPH3151.

This is a course in systematic pharmacology dealing with the effects of drugs on systems with particular emphasis on the drugs that enhance performance and underlying mechanisms responsible for their effects. As well students will study the impact of drug treatment on performance and the effects of exercise on drug actions and side effects. This course will be given as lecture only.

**PHPH4507****Drugs in Sport (Effects, Interactions and Testing)**

*Staff Contact:* Professor ER Lumbers  
UOC6 S2

*Prerequisite/s:* PHPH3151.

As per PHPH4506, and in addition 3 extra units of credit will be generated by undertaking practical classes dealing with drug testing and issues concerning the control of the management and use of drugs in sport.

**Note/s:** Students may choose either PHPH4506 or PHPH4507 for study in session 2.

**PHPH4511****Sports Management**

*Staff Contact:* Dr J Lang  
UOC3 S1

The principles and practice of sports management will be dealt with, emphasising planning, staffing, financial management and information systems management. A 'systems' view of sporting organisations will be developed. There will be examination and discussion of the Australian sporting industry and its changing structure and its relation to the media and multimedia international organisations. Practical work will require selecting appropriate topics in these areas for analysis and reports.

**PHPH4512****Circadian Rhythms: Sleep Physiology and Pathophysiology**

*Staff Contact:* School Office  
UOC3 S1

*Prerequisite/s:* PHPH3503, PHPH3504.

The course emphasises the importance of circadian rhythms in regard to athletes and their performance. The neurophysiology and location of rhythm generators will be reviewed and their effects on the neuro-hormonal axis discussed. The ultradian rhythms, such as the alert-drowsy cycle, will be discussed in relation to performance. Sleep physiology and its stages will be discussed in relation to hormonal changes such as on diurnal changes in plasma cortisol and growth hormone. There will be discussion of jet-lag in relation to the phase changes due to rapid changes in longitude as occurs in airline travel. The effects of disordered sleep will be considered in relation to its effects on performance and related effects on arousal and attention and on hormones. Practical work will include observations in a sleep laboratory.

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## Physics

**PHYS1022****Physics 1 For Health and Life Scientists**

*Staff Contact:* School Office  
UOC12 HPW6 S1 S2

*Corequisites:* MATH1021 or MATH1032 or MATH1131

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.

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## Psychiatry

**PSCY2201****Human Behaviour(Science)**

*Staff Contact:* Dr Uté Vollmer-Conna  
UOC6 HPW3 S1 S2

**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 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 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.

**Note/s:** Restricted to combined degree course 3821.

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## Psychology

Servicing Course only: taught within programs offered by other faculties.

### **PSYC1001**

#### **Psychology 1A**

*Staff Contact:* Dr. Spehar

UOC6 HPW5 S1

*Excluded:* GENB4001

This course introduces the content and methods of psychology as a basic science, with emphasis on the social bases of behaviour. After an initial review of the historical foundations for the scientific study of human behaviour, several specific topics related to the social aspects of human behaviour are discussed. Specific topics covered in this course include: development, measurement of personality, theories of consciousness, and social influences on behaviour. In addition, training in the methods of psychological inquiry and basic procedures of data analysis is also provided.

### **PSYC1011**

#### **Psychology 1B**

*Staff Contact:* Dr. Spehar

UOC6 HPW5 S2

*Excluded:* GENB4002

This course introduces the content and methods of psychology as a basic science, with emphasis on the biological bases of behaviour. Specific topics covered in this course include: perception, learning, memory, motivation, emotion, and abnormal behaviour. After describing the basic phenomena within an area, the goal will be to explore the neural bases of these behaviours. In addition, training in the methods of psychological inquiry and basic procedures of data analysis is also provided.

### **PSYC2126**

#### **Sports Psychology**

*Staff Contact:* School Office

UOC6 HPW4

*Prerequisite/s:* PSYC1001, PSYC1011

This course focuses on intrapsychic and interpersonal processes relevant to the training and practice of sport. Theories in areas such as self-perception, self-evaluation, attentional control, attribution, social comparison, group cohesiveness, leadership, and conflict management will be described and applied to the sporting context. Physiological consequences of psychological processes, and their implications for preparation and performance will be discussed. Practical classes will include consideration of issues and methods involved in assessment of relevant personality and individual differences.

**Note/s:** Restricted to Program 3850 Bachelor of Science - Health and Sports Science.

## Postgraduate Programs

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 Medical Science in Drug Development (MMedSc)  
Master of Health Administration (MHA)  
Master of Health Services Management (MHSM)  
Master of Health Professions Education (MHPEd)  
Master of Medicine (Geriatrics) (MMed)  
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 (GradDip)  
Graduate Diploma in Paediatrics (GradDipPaed)  
Graduate Diploma in Public Health (GradDipPH)  
Graduate Diploma in Sports Medicine (GradDipSpMed)

### Graduate Certificates

Graduate Certificate in Clinical Education (GradCertClinEd)  
Graduate Certificate in Drug Development (GradCertDD)  
Graduate Certificate in Geriatric Medicine (GradCertGeri)  
Graduate Certificate in Health Services Management (GradCertHSM)  
Graduate Certificate in Public Health (GradCertPH)  
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.

## Admission to Coursework Programs – Masters, Graduate Diploma, Graduate Certificate

For detailed information about individual programs, please refer to the section on Conditions for the Award of Degrees.

- a) For Masters by coursework and graduate diplomas requiring a medical degree (MMed, MSPMed, MPM, Graduate Diplomas in Sports Medicine, Geriatric Medicine, Paediatrics), 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 AND shall have had at least one year's full-time experience in the practice of medicine. Additional prerequisites may be specified by the program authority.
- b) For other Masters by coursework and graduate diploma programs, a candidate for the degree shall 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 OR shall have been awarded an appropriate degree of Bachelor of three full-time years' duration (or the part-time equivalent) and have had at least three years' relevant experience. Additional prerequisites may be specified by the program authority.
- c) For graduate certificates requiring a medical degree (Sports Medicine and Geriatric Medicine), 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. Additional prerequisites may be specified by the program authority.

- d) For other graduate certificate programs, a candidate for the degree shall 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 Higher Degree Committee of the Faculty of Medicine. Additional prerequisites may be specified by the program authority.

### **Postgraduate Enrolment Procedures**

All students enrolling in postgraduate programs should obtain a copy of the free booklet *Re-enrolling 2000* available from the School Offices and the Admissions Office. This booklet provides detailed information on enrolment procedures and fees, enrolment in miscellaneous courses, locations and hours of cashiers and late enrolment details. Students interested in undertaking a postgraduate program should consult the appropriate Head of School or the Postgraduate Administrative Officer, Office of the Dean.

### **Advice to Graduate Students on Computing Requirements**

UNSW expects all new students to have off campus access to a standard modern computer with CD drive and internet connectivity (e.g. via a modem). The software on the computer should include:

- A word processor able to import and export RTF files
- A spreadsheet program able to import and export ASCII delimited tables
- A drawing/painting program able to import and export images in widely used formats such as GIF, JPEG, TIFF or PNG
- software able to read PDF and Postscript files<sup>1</sup>
- A Java 1.1 capable Web browser that supports HTML 2.0<sup>1</sup>
- Software to enable file transfer using the FTP protocol<sup>1</sup>
- Networking software to enable TCP/IP connection (e.g. via a modem using PPP)<sup>1</sup>
- Email software able to link to a popserver
- Anti-virus software<sup>1</sup>

As computers remain expensive items, UNSW will provide limited on-campus computer facilities that meet these standards for students who are unable to obtain access to off-campus access to such resources.

<sup>1</sup>UNSW's Division of Information Services is able to provide software of this type with students being charged only for handling and media costs.

## Program Outlines

### 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 program may be completed by:

- thesis with supervision,
- thesis without supervision, or
- 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 program 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 program 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 of surgical training and there should be a lapse of five years before the thesis is submitted from the date of the award of the undergraduate medical degree.

Other research degrees are offered by Schools of the Faculty.

### School of Community Medicine

The School offers programs of study leading to the award of the following degrees:

- Master of Community Health by Research
- Masters of Medicine in Geriatrics by Coursework
- Graduate Diploma in Geriatric Medicine
- Graduate Certificate in Geriatric Medicine

#### 2855

#### Master of Community Health by Research

#### MCH

This program 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 program.

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.

#### 9025

#### Master of Medicine in Geriatrics by Coursework

#### MMed

The Master of Medicine (Geriatrics) program 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 program is offered by means of a distance education package. In order to undertake the program, candidates require a computer with the following specifications: 486 DX or Macintosh LC75 (minimum); 16 MB RAM (minimum); sound card and speakers; CD-ROM; modem (fast); Internet access, web browser and word processing package. 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 courses have an accompanying CD-ROM. Students liaise with lecturers, access assessment activities and submit work via the Internet. Each six unit of credit course 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 courses:

		UOC
CMED9548	Clinical Geriatrics 1	6
CMED9549	Clinical Geriatrics 2	6
CMED9550	Clinical Examination	-
CMED9539	Psychiatry of Old Age	6



CMED9543	Organisation and Delivery of Services for Older People	6
CMED9544	Gerontology	6
CMED9540	Pharmacology	6
CMED9541	Rehabilitation	6
CMED9542	Healthy Ageing	6
CMED9547	Clinical Experience	8
CMED9546	Major Research Project	16
<b>Total</b>		<b>72</b>

These courses 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. (CMED9550)

140 hours of supervised clinical work is 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.

Candidates are required to submit a major project on an approved topic.

## 5506 Graduate Diploma in Geriatric Medicine

### GradDip

*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 program, candidates require a computer with the following specifications: 486 DX or Macintosh LC75 (minimum); 16 MB RAM (minimum); sound card and speakers; CD-ROM; modem (fast); Internet access, web browser and word processing package. 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 courses have an accompanying CD-ROM. Students liaise with lecturers, access assessment activities and submit work via the Internet. Each 6 unit of credit course 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 courses:

		UOC
CMED9548	Clinical Geriatrics 1	6
CMED9549	Clinical Geriatrics 2	6
CMED9550	Clinical Examination	-
CMED9539	Psychiatry of Old Age	6
CMED9543	Organisation and Delivery of Services for Older People	6
CMED9544	Gerontology	6
CMED9540	Pharmacology	6
CMED9541	Rehabilitation	6
CMED9542	Healthy Ageing	6
<b>Total</b>		<b>48</b>

These courses 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. (CMED9550).

Candidates awarded the Graduate Diploma in Geriatric Medicine are eligible to undertake further study for the Master of Medicine (Geriatrics) by coursework.

## 7364

### Graduate Certificate in Geriatric Medicine

#### GradCert

*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 program, candidates require a computer with the following specifications: 486 DX or Macintosh LC75 (minimum); 16 MB RAM (minimum); sound card and speakers; CD-ROM; modem (fast); Internet access, web browser and word processing package. 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 courses have an accompanying CD-ROM. Students liaise with lecturers, access assessment activities and submit work via the Internet. Each 6 units of credit course 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 courses:

		UOC
CMED9548	Clinical Geriatrics 1	6
CMED9549	Clinical Geriatrics 2	6
CMED9550	Clinical Examination	-
CMED9539	Psychiatry of Old Age	6

and one only of the following:

CMED9543	Organisation and Delivery of Services for Older People	6
CMED9544	Gerontology	6
CMED9540	Pharmacology	6
CMED9541	Rehabilitation	6
CMED9542	Healthy Ageing	6
<b>Total</b>		<b>24</b>

These courses 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. (CMED9550).

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.

## School of Health Services Management

The School offers programs of study leading to the award of the following degrees:

- Master of Health Administration by Research
- Master of Health Administration by Coursework
- Masters of Health Services Management
- Master of Commerce - Health Informatics
- Graduate Certificate in Health Services Management

### Some People Who Can Help You

#### Business Manager

Deidre Kennedy (Room 227, Samuels Building)

Telephone: (02) 9385 2597

Facsimile: (02) 9385 1036

Email: d.kennedy@unsw.edu.au

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 also offers three formal programs in health services management leading to the awards of the degree of Master of Health Services Management, Master of Health Administration, and the Graduate Certificate in Health Services Management. These programs 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.

## 2960

### Master of Health Administration by Research

#### 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 Research Studies Co-ordinator, Dr Mary-Louise McLaws, Tel (02) 9385 2591, e-mail: m.mclaws@unsw.edu.au.

## 8900

### Master of Health Administration by Formal Course Work

#### MHA

The degree program 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 program 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 program 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 program is eight academic sessions.

The normal time for completion of the program for part-time internal and external students is six academic sessions (three calendar years). Students must successfully complete 12 courses or the equivalent to a total of 60 units of credit.

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 courses.

Electives are chosen by the student in consultation with the Head of the School of Health Services Management (or nominee) from graduate courses 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.

#### Program Structure

The program is divided into two components, for a total of 60 units of credit. These components are:

Core courses	(6)	36 units of credit
Elective courses	(6)	24 units of credit

In selecting electives, students can choose courses 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 electives relevant to their own interests and needs.

#### Core Courses

This compulsory component comprises the six core courses of 6 units of credit each. Students must successfully complete the following six courses 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.

		UOC
HEAL9011	Statistics and Epidemiology	6
HEAL9041	Health Care Systems	6
HEAL9071	Health Care Financial Management 1	6
HEAL9351	Health Economics 1	6

HEAL9421	Public Health and Epidemiology	6
HEAL9711	Management of Organisations	6
<b>Total</b>		<b>36</b>

## 8941

### Master of Health Services Management

#### MHSM

The program 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 program 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 program is two academic sessions. The maximum time for completion of the program is eight academic sessions. The normal time for completion of the program for part-time internal and external students is four academic sessions (two calendar years).

Students must complete 9 courses, or the equivalent, to a total of 48 units of credit.

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 courses.

Electives are chosen by the student in consultation with the Head of the School of Health Services Management (or nominee) from graduate courses 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 courses taken will be considered subject to approval of the Head of School.

#### Program Structure

The program is divided into two components, for a total of 48 units of credit. These components are:

Core courses	(6)	36 units of credit
Elective courses	(3)	12 units of credit

In selecting elective courses students can choose from a wide range of courses 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 courses relevant to their own interests and needs.

#### Core Courses

This compulsory component comprises the six core courses of 6 units of credit each. Students must successfully complete the following six courses 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.

HEAL9441	Health Care Economics and Financial Management	6
HEAL9422	Population Health, Epidemiology and Statistics	6
HEAL9442	Health Resources Planning and Development	6
HEAL9471	Comparative Health Care Systems	6
HEAL9711	Management of Organisations	6
MEED9015	Health Services Development and Implementation	6
	Electives (3)	12
<b>Total</b>		<b>48</b>

#### Elective Courses

There is a large number of courses available to choose from in each academic session. These courses are provided for illustrative purposes.

		<b>UOC</b>
HEAL9371	Research and Evaluation Methods	4
HEAL9381	Policy Studies	4
HEAL9811	Sociology, Ethics and Health	4
MEED9010	Community Development	4
MEED9108	Program Evaluation and Planned Change	4
MEED9111	The Consultation Process	4
MEED9140	Project Design Monitoring in International Health	4

## 8404

### Master of Commerce – Health Informatics MCom

A joint program between the School of Health Services Management and the School of Information Systems, Technology and Management in the Faculty of Commerce. This special program leads to the award of a Master of Commerce with a stream in Health Informatics

The convergence of information and telecommunications technologies has ushered in the era of digital information management. The use of intranets, extranets and proprietary information sources has transformed the work of many professional groups. The work of practitioners in many areas has become increasingly information dependent, and the provision of timely, accurate, up-to-date and authoritative information to the desktop is now the expectation. In addition the work practices of these professional groups has become more flexible as practitioners/professionals are increasingly mobile but still require access to information and technology. Arising from this change is the development of a new kind of professional, the Information Management and Technology Specialist. This person combines knowledge of information systems and technology with knowledge of information sources and management. They have an understanding of technology developments and the issues of managing information systems, but more importantly they have the skills and knowledge to create, acquire, maintain and disseminate appropriate information to support operational processes of the organisation.

Health Informatics is concerned with the development, dissemination and use of information in the field of health care. This stream in the Master of Commerce program is aimed at providing Information Management and Technology professionals with a program that will prepare them for work within the health care environment. Issues covered will include: problems of classification that are inherent in establishing more financially driven and output-oriented approaches to service delivery; identifying and developing systems for more evidenced based and outcomes approaches to service delivery; involving clinicians in information systems development and implementation particularly with respect to casemix applications and clinical pathways.

**Compulsory Core Subjects:**

INFS5988	Business Information Systems
ACCT5901	Accounting: A User Perspective
ECON5103	Business Economics
ECON5203	Statistics for Business

In addition to the four Master of Commerce core subjects listed above, students must complete:

INFS5992	Data Management
IMGT5430	Health Sciences Information: Sources, Retrieval and Issues
HEAL9041	Health Care Systems

Plus five units from:

INFS5848	Information Systems Project Management
INFS5953	Information Systems Management
INFS5983	Business Data Communication
INFS5989	Information Systems Design
IMGT5110	Information Retrieval Systems
IMGT5120	Intellectual Organisation of Information and Records
IMGT5550	Advanced Information Retrieval Systems
ACCT5933	Issues in Public Sector Financial Administration
ACCT5988	Innovative Organisations
HEAL9301	Health Services Planning 1
HEAL9351	Health Economics 1
HEAL9381	Policy Studies
HEAL9391	Health Services Strategic Management and Planning
HEAL9421	Public Health and Epidemiology
HEAL9442	Health Resources Planning and Development
HEAL9711	Management of Organisations
HEAL9744	Casemix Accounting and Funding

**2. Strategy and Change**

HEAL9391	Health Services Strategic Management and Planning	4	UOC
HEAL9741	Management of Health Services	4	
HEAL9921	Project	4	
HEAL9108	Program Evaluation and Planned Change	4	
HEAL9111	The Consultation Process	4	

**3. Health Outcomes Measurement, Improvement and Research**

HEAL9121	Measurement of Quality of Life, Health Status and Patient Satisfaction	4	UOC
HEAL9781	Evidence-based Clinical Management	4	
HEAL9974	Project	12	

**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 are granted for the Graduate Certificate. Exceptions can only be granted by the Head of School.

**Non-Award Students**

Non-Award students enrolled on an external basis in courses of the MHA, MHSM or MPH degree programs are required to meet all the conditions for the completion of each course, including attendance at lectures in the course at a residential school.

**7360****Graduate Certificate in Health Services Management****GradCertHSM**

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 MHSM. Should students be successful in obtaining entry to the MHA or MHSM program they will be expected to successfully complete the remaining Masters courses required before they can be awarded a Masters degree.

The Graduate Certificate program may be taken on a full-time or part-time basis, internal or external basis (including compulsory residential schools). External Studies are not generally offered to students resident in the Sydney metropolitan region. Applications based on difficulty of travel will be considered.

**Program Structure**

Candidates are required to successfully complete a minimum of four courses or the equivalent to a total of 20 units of credit from the courses offered by the School of Health Services Management.

For candidates interested in particular streams the following are offered. In addition, streams currently being developed for offer to candidates in 2001 will include, Hospital Infection, Casemix, Health Law and Social Determinants of Health.

**1. Clinical Governance**

HEAL9091	Health Care Economics and Financial Management	4	UOC
HEAL9747	Clinical Work Process Control	6	
HEAL9748	Clinical Governance	6	
HEAL9781	Evidence Based Clinical Management	4	

**School of Medical Education**

The School offers programs of study leading to the award of the following degrees:

- Master of Health Professions Education by Research
- Master of Clinical Education by Distance Education
- Graduate Diploma in Clinical Education by Distance Education
- Graduate Certificate in Clinical Education by Distance Education

**2885****Master of Health Professions Education by Research****MHPed**

This program 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 program.

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.

9050

**Master of Clinical Education by Distance Education****MClinEd**

The program aims to provide a multidisciplinary program of study of clinical education for practicing clinicians with teaching responsibilities. The program 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 program also aims to foster a rational and rigorous approach to understanding clinical reasoning and decision making, and to ensure its effective learning. Three 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 48 units of credit and submission of a satisfactory major project based on at least one session of applied development or research in clinical education.

Courses to be offered within the distance education programs are:

		UOC
MEED9302	Learning in Small Groups	4
MEED9303	Clinical Practice as a Discipline	4
MEED9304	Learning Clinical Reasoning	6
MEED9306	Clinical Supervision	4
MEED9307	Exploring Clinical Ethics	4
MEED9308	Learning Clinical Decision Making	4
MEED9309	Assessment of Clinical Performance	4
MEED9312	Research into Clinical Education	6
MEED9313	Planning Educational Programs	4
MEED9314	The Ward (or Office) as a Social and Learning Environment	4
MEED9315	Clinical Teaching	6
MEED9316	Learning Consulting Skills	6
MEED9317	Clinicians as Managers	4
MEED9351	Independent Study	2
MEED9352	Independent Study	4
MEED9353	Independent Study	6
MEED9354	Independent Study	8
MEED9360	Major Project	24

5501

**Graduate Diploma in Clinical Education by Distance Education****GradDipClinEd**

The Graduate Diploma in Clinical Education will be awarded after satisfactory completion of advanced study of 40 units of credit together with 100 hours of clinical teaching practice.

7376

**Graduate Certificate in Clinical Education by Distance Education****GradCertClinEd**

The Graduate Certificate program aims to provide a multidisciplinary program of study of clinical education for practicing clinicians with teaching responsibilities. The program requires clinical educators to study the knowledge, practical activities and skills within the

environment of the ward and other clinical settings, to observe and document clinical teaching and learning.

This Graduated Certificate program will be suitable for those clinical teachers who wish to upgrade their educational skills and obtain recognition for their Faculty and professional development, but who would not wish to engage in a full masters program.

The Graduate Certificate in Clinical Education will be awarded after satisfactory completion of advanced study of 20 units of credit.

Course to be offered within the distance education program are:

		UOC
MEED9302	Learning in Small Groups	4
MEED9315	Clinical Teaching	6
MEED9316	Learning Consulting Skills	6
And one from		
MEED9306	Clinical Supervision	4
MEED9307	Exploring Clinical Ethics	4
MEED9309	Assessment of Clinical Performance	4
MEED9313	Planning Educational Programs	4
MEED9314	The Ward (or office) as a Social and Learning Environment	4
<b>Total</b>		<b>20</b>

**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 cross institutional enrolment in courses.

The Centre offers programs of study in the area of public health leading to the awards of the following degrees:

- Master of Public Health, by Coursework and by Research
- Graduate Diploma of Public Health
- Graduate Certificate 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. The program can be undertaken full-time or part-time; through internal or external mode.

9045

**Master of Public Health by Coursework****MPH**

The Master of Public Health program provides preparation for education, research and service in all aspects of public health. The program 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.

### Program Structure

The MPH program is offered in full-time, part-time and external\* modes.

The program is divided into three components, for a total of 60 units of credit. These components are:

Core courses	28 units of credit
Elective courses	20 units of credit
Project	12 units of credit

The program articulates with the Graduate Diploma in Public Health (GradDipPH 5507) and the Graduate Certificate in Public Health (GradCertPH 7368). Credit for courses completed as part of the GradDipPH and the GradCertPH may be transferred to the Master's program.

### Core Courses

Students must complete the following six courses as a foundation for further study. These core courses are prerequisites for enrolment in many of the electives.

	UOC
*CMED9500 Epidemiology	6
*CMED9516 Introduction to Public Health	4
*MEED9012 Health Promotion	4
CMED9502 Statistics for Public Health	6
*HEAL9751 Introduction to Management and Policy for Public Health	4
#MEED9131 Formulating Academic Proposals and Projects	4
Electives	20
Project	12
<b>Total</b>	<b>60</b>

# Candidates who can demonstrate competence in preparation of academic proposals and projects may be granted exemption from this course, but will be required to substitute another elective.

### Electives

There are over 70 electives 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 courses 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 course 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 electives are offered in 2001:

	UOC
CMED9517 Advanced Biostatistics and Statistical Computing	4
*CMED9604 Alcohol and Other Drug Issues	4
CMED9513 Applied Epidemiology	4
*CMED9627 Audit and Quality Assurance in Primary Care	8
CMED9518 Case Studies in Epidemiology	4
HEAL9748 Clinical Governance	4
HEAL9747 Clinical Work Process Control	4
MEED9010 Community Development	4
MEED9111 The Consultation Process	4
*HEAL9661 Current Issues in Nursing	4
CMED9615 Delivery of Health Services in the Community	4
CMED9519 Demography	4
MEED9125 Designing Short Courses and Workshops	4
*CMED9612 Environmental Health	4
*CMED9619 Evaluation of Primary Health Services	4
*CMED9602 Health and Illness Behaviour	4
CMED9613 Health and Public Policy	4
*HEAL9091 Health Care Economics and Financial Management	4
*HEAL9081 Health Care Financial Management 2	4
*HEAL9041 Health Care Systems	6
*HEAL9351 Health Economics 1	6
CMED9605 Health in Developing Countries	4
*HEAL9331 Health Related Law & Ethics (Australia)	4

*HEAL9301 Health Services Planning 1	4
*HEAL9391 Health Services Strategic Management and Planning	4
CMED9621 HIV/AIDS Challenging and Changing Health Care Systems	4
CMED9626 Inequalities and Health	4
*MEED9013 Influencing Health Beliefs and Health Behaviours	4
CMED9633 International Tobacco Control	4
*HEAL9743 Introduction to Casemix	4
*MEED9133 Learning, Teaching and Assessment	6
*HEAL9741 Management of Health Services	4
HEAL9711 Management of Organisations	6
*HEAL9701 Management of Work of Health Professionals	6
*HEAL9121 Measurement of Quality of Life, Health Status and Patient Satisfaction	4
*MEED9313 Planning Educational Programs	4
*HEAL9381 Policy Studies	4
MEED9122 Primary Health Care: Programs, policies and perspectives	4
MEED9129 Primary Health Care: Issues in Implementation	4
*MEED9108 Program Evaluation and Planned Change	4
CMED9632 Project Design and Monitoring in Effective Health Care	4
*MEED9140 Project Design and Monitoring in International Health	4
*CMED9620 Project Management and Evaluation in Rural Areas	4
MEED9120 Qualitative Research Methods in Health Promotion	4
*HEAL9111 Quality Assurance for Health Administrators	4
*HEAL9371 Research & Evaluation Methods	4
*CMED9608 Rural Health Studies 1	4
*HEAL9811 Sociology, Ethics and Health	4
MEED9106 Teaching Skills	4
*CMED9606 Women and Health	4

\* These courses are also available in distance education mode.

### Project

The 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 program. The project may be in the form of a small-scale research study, a case study, a program evaluation or a report on a field placement. It is normally undertaken after completion of all core and elective courses. Provisional topics for the project will be determined in consultation with an academic adviser early in the program, and refined in MEED9131 Formulating Academic Proposals and Projects.

## 5507

### Graduate Diploma in Public Health

### GradDipPH

The Graduate Diploma in Public Health comprises the following courses:

	UOC
CMED9516 Introduction to Public Health	4
CMED9502 Statistics for Public Health	6
CMED9500 Epidemiology	6
HEAL9751 Introduction to Management and Policy for Public Health	4
MEED9012 Health Promotion	4
Electives	16
<b>Total</b>	<b>40</b>

7368

**Graduate Certificate in Public Health****GradCertPH**

The Graduate Certificate in Public Health comprises the following courses:

		UOC
CMED9516	Introduction to Public Health	4
CMED9500	Epidemiology	6
	Electives	12
<b>Total</b>		<b>22</b>

**School of Paediatrics**

The School offers programs of study leading to the award of the following degrees:

- Graduate Diploma in Community Paediatrics
- Graduate Diploma in Paediatrics

5505

**Graduate Diploma in Community Paediatrics****GradDipCommPaed**

This program is designed for health professionals such as medical practitioners, nurses, psychologists, physiotherapists and social workers, who provide services to children. Candidates are required to hold a relevant bachelor's degree of three years' duration or equivalent prior to enrolment in the program. The program 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 program of advanced study of the following ten courses which totals 44 units of credit:

		UOC
CMED9502	Statistics for Public Health	6
PAED8201	Physical Growth and Development 1A	4
PAED8202	Physical Growth and Development 1B	4
PAED8102	Psychosocial Development	4
PAED8103	Child Health Services	4
PAED8104	The Effect of Social Adversity in Children	4
PAED8105	The Child and the Law	4
PAED8203	Infant Feeding and Nutrition 1	4
PAED8204	Infant Feeding and Nutrition 2	4
CMED9500	Epidemiology	6
<b>Total</b>		<b>44</b>

This course will be run in 2001 subject to a minimum of 10 enrolments.

5500

**Graduate Diploma in Paediatrics****GradDipPaed**

The program is taken over one year on a part-time basis. Candidates attend a program of lectures and grand rounds (approximately four and one-half hours per week).

The Graduate Diploma is awarded after satisfying the examiners in written and clinical examinations at the end of the program.

It must be noted that the Graduate Diploma of Paediatrics is intended for postgraduates who have medical 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.

		UOC
PAED9101	General Paediatrics and Child Health 1	8
PAED9102	General Paediatrics and Child Health 2	8
PAED9106	Clinical and Technical Skills 1	4
PAED9107	Clinical and Technical Skills 2	4
PAED9108	Clinical Paediatric Experience 1	-
PAED9109	Clinical Paediatric Experience 2	-
<b>Total</b>		<b>24</b>

Students should note that if they have to repeat the year due to failure in one or more course, they must re-enrol in and satisfactorily complete all courses in order to qualify for the Graduate Diploma.

**School of Physiology and Pharmacology**

The School offers programs of study leading to the award of the following degrees:

- Master of Medical Science in Drug Development delivered by Course work delivered by Distance Education
- Master of Science in Biopharmaceuticals (in conjunction with the School of Biotechnology) by Coursework or by Distance Education
- Master of Sports Medicine by course work delivered by Course work delivered by Distance Education
- Graduate Diploma in Drug Development by Distance Education
- Graduate Diploma Sports Medicine by Course work delivered by Distance Education
- Graduate Certificate in Drug Development by Distance Education
- Graduate Certificate in Sports Medicine by Course work delivered by Distance Education

9055

**Master of Sports Medicine****MSPMed**

The programs 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 courses (including clinical activities as prescribed) which totals 60 units of credit.

54 units of credit will accrue from nine compulsory courses.

6 units of credit will accrue from the completion of a Research Project and Report.

Completion is also required of a Sports Medicine Practicum requiring attendance at two 4 day clinical training weekends. For overseas students special arrangements will be made.

Satisfactory completion of a final clinical examination is also required.

Courses for MSPMed are as follows:

## UOC

PHPH5413	Sports Injuries 1	6
PHPH5423	Sports Injuries 2	6
PHPH5433	Medical Applications of Exercise 1	6
PHPH5443	Medical Applications of Exercise 2	6
PHPH5414	Sports Science	6
PHPH5426	Applied Sports Medicine	6
PHPH5416	Sports Nutrition/Sports Pharmacology	6
PHPH5417	Sports Psychology/Clinical Biomechanics	6
PHPH5424	Research Methods	6
PHPH5445	Research Project and Report	6
	Sports Medicine Practicum	-
<b>Total</b>		<b>60</b>

## 5503

## Graduate Diploma in Sports Medicine

## GradDipSpMed

The Graduate Diploma in Sports Medicine will be awarded after the satisfactory completion of a program of advanced study of courses (including clinical activities as prescribed) which total 48 units of credit from eight compulsory courses.

Other requirements will be the completion of a Sports Medicine Practicum requiring attendance at two 4 day clinical training weekends (for overseas students special arrangements will be made) and satisfactory completion of a final clinical examination.

Courses for the GradDipSpMed are as follows:

## UOC

PHPH5513	Sports Injuries 1	6
PHPH5523	Sports Injuries 2	6
PHPH5533	Medical Application of Exercise 1	6
PHPH5543	Medical Application of Exercise 2	6
PHPH5514	Sports Science	6
PHPH5526	Applied Sports Medicine	6
PHPH5516	Sports Nutrition/Sports Pharmacology	6
PHPH5517	Sports Psychology/Clinical Biomechanics	6
	Sports Medicine Practicum	-
<b>Total</b>		<b>48</b>

## 7378

## Graduate Certificate in Sports Medicine

## GradCertSpMed

The Graduate Certificate in Sports Medicine will be awarded after the satisfactory completion of a program of advanced study of courses (including clinical activities as prescribed) which totals 24 units of credit from four compulsory courses.

Other requirements will be the completion of a Sports Medicine Practicum requiring attendance at two 4 day clinical training weekends (for overseas students special arrangements will be made) and satisfactory completion of a final clinical examination.

Courses for the GradCertSPMed are as follows:

## UOC

PHPH5613	Sports Injuries 1	6
PHPH5623	Sports Injuries 2	6
PHPH5633	Medical Application of Exercise 1	6
PHPH5643	Medical Application of Exercise 2	6
	Sports Medicine Practicum	-
<b>Total</b>		<b>24</b>

## 8049.1000

## Master of Science in Biopharmaceuticals by coursework

## MSc (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 program.

The program 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.

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 program, while Biotechnology Principles (BIOT7040) must be taken by students who have not completed an approved Biotechnology course program.

Course details are as follows:

## UOC

PHPH5461	Pharmacology Principles or	12
BIOT7040	Biotechnology Principles	
PHPH5471	Advanced Pharmacology	12
BIOT7030	Advanced Biotechnology	12
PHPH5491	Advanced Pharmacology - Project	12
<b>Total</b>		<b>48</b>

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).

Each individual program 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.

## 8049.2000

## Master of Science in Biopharmaceuticals by coursework Distance Education

## MSc (Biopharmaceuticals)

The CRC for Biopharmaceutical Research has developed this strongly interdisciplinary Master of Science in Biopharmaceuticals course. The course teaches the scientific basis underscoring the development of recombinant biopharmaceuticals, combined with aspects of clinical trials, regulatory considerations, patent issues, and licensing. The program content is incorporated in 8 distance education modules comprised of written text and video/audio tapes containing course material, demonstrations and self-testing exercises. Access to the Course Co-ordinators will be by phone, fax, electronic mail and teleconferencing facilities.

The Master's Program can be completed in a minimum of 2 years. The minimum time option would entail the completion of two modules per session. These are offered concurrently. A maximum time for completion has been set at 8 years.



Modules consist of printed notes containing course material, readings, assessment questions and exercises. Some modules also include audio and video taped material so access to audio equipment is essential.

The Master's Program calls for the completion of 8 modules which is equivalent to 48 units of credit (exemptions may be allowed in exceptional circumstances).

There will be two tutorials per module. These will be conducted via a multiple telephone link and will be structured and interactive.

Each module will be assessed separately at module completion and a certificate awarded. The assessment of modules will be flexible and will be based on two pieces of submitted work. This may be in the form of written assignments or as a timed, faxed examination subject to university approval.

Course details are as follows:

	UOC
PHPH5501 Basic Principles of Drug Actions	6
PHPH5511 Selected Topics in Pharmacology	6
PHPH5521 Techniques for Drug Development	6
PHPH5531 Discovery and Development of New Medicines	6
BIOT7070 Production of Recombinant Products	6
BIOT7080 Principles of Fermentation and Downstream Processing	6
BIOT7090 Monoclonal Antibody Technology	6
BIOT7120 Regulatory Considerations, Patent Issues and Licensing	6
<b>Total</b>	<b>48</b>

## 9060

### Master of Medical Science in Drug Development by Distance Education

#### 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 program's teaching approach is to streamline the provision of information and to concentrate on application. Thus, students are issued with a manual for each course. 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 program is offered as a part-time distance learning programme and will take a minimum of three years to complete. The program 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 courses for the Master of Medical Science in Drug Development. Generally students must take all core courses and sufficient electives to give a total of 72 units of credit. The program proceeds in three stages, which correspond to Years 1 to 3 for students proceeding in the minimum time. In special cases, students may replace core courses with electives.

The structure of the Masters program is as follows:

<b>Year 1</b>		
<b>Session 1</b>		<b>UOC</b>
*PHPH9101 Principles of Drug Action		6
*PHPH9100 Discovery and Development of Medicines		6
<b>Session 2</b>		
*PHPH9120 Clinical Development of Medicines		6
*PHPH9104 Law, Ethics and the Regulation of Medicines		6
<b>Year 2</b>		
<b>Session 1</b>		
*PHPH9102 Pharmaceutical Development of Medicines		6
*PHPH9121 Postmarketing Development of Medicines		6
<b>Year 2</b>		
<b>Session 2</b>		
Elective		6
Elective		6
<b>Year 3</b>		
<b>Session 1</b>		
Elective		6
Elective		6
<b>Year 3</b>		
<b>Session 2</b>		
Elective		6
Elective		6
<b>Total</b>		<b>72</b>

\* Core Courses

Electives may be chosen from the following:

	UOC
PHPH9107 Therapeutics and the Molecular basis of Disease 1	6
PHPH9108 Therapeutic Basis of Drug Use and Development 1	6
PHPH9109 Therapeutic Basis of Drug Use and Development 2	6
PHPH9111 Pharmaceutical Formulation 2	6
PHPH9112 Advanced Pharmacokinetics	6
PHPH9113 Advanced Regulatory Affairs	6
PHPH9114 Pharmacoeconomics	6
PHPH9116 Advanced Clinical Trials Management	6
PHPH9118 Therapeutics and the Molecular Basis of Disease 2	6
PHPH9119 Providing Independent Drug Information for General Practice	6
PHPH9120 Clinical Development of Medicines	6
PHPH9121 Postmarketing Development of Medicines	6
PHPH9122 Quality Use of Medicines-Best Practice in Prescribing	6

5504

**Graduate Diploma in Drug Development by Distance Education****GradDipDD**

The Graduate Diploma in Drug Development will be awarded to students who successfully complete the following program. The program is offered as a part-time distance learning program and takes a minimum of two years to complete. The program 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 program 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 program requirements, students must satisfactorily complete all of the core courses as well as electives totaling 12 units of credit.

The structure of the Graduate Diploma program is as follows:

**Year 1**

<b>Session 1</b>		<b>UOC</b>
*PHPH9101	Principles of Drug Action	6
*PHPH9100	Discovery and Development of Medicines	6

**Session 2**

*PHPH9120	Clinical Development of Medicines	6
*PHPH9104	Law, Ethics and the Regulation of Medicines	6

**Year 2**

<b>Session 1</b>		
*PHPH9102	Pharmaceutical Development of Medicines	6
*PHPH9121	Postmarketing Development of Medicines	6

**Session 2**

Elective		6
Elective		6

<b>Total</b>		<b>48</b>
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Electives may be chosen from the following:

		<b>UOC</b>
PHPH9107	Therapeutics and the Molecular Basis of Disease 1	6
PHPH9108	Therapeutic Basis of Drug Use and Development 1	6
PHPH9109	Therapeutic Basis of Drug Use and Development 2	6
PHPH9111	Pharmaceutical Formulation 2	6
PHPH9112	Advanced Pharmacokinetics	6
PHPH9113	Advanced Regulatory Affairs	6
PHPH9114	Pharmacoeconomics	6
PHPH9116	Advanced Clinical Trials Management	6
PHPH9118	Therapeutics and the Molecular Basis of Disease 2	6
PHPH9119	Providing Independent Drug Information for General Practice	6
PHPH9120	Clinical Development of Medicines	6
PHPH9121	Postmarketing Development of Medicines	6
PHPH9122	Quality of Medicines-Best Practice in Prescribing	6

7370

**Graduate Certificate in Drug Development by Distance Education****GradCertDD**

The Graduate Certificate in Drug Development will be awarded to students who successfully complete the following course work. This program 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 program is offered as a part time distance learning program and will take a minimum of one year to complete.

**Year 1**

<b>Session 1</b>		
*PHPH9101	Principles of Drug Action	6
*PHPH9100	Discovery and Development of Medicines	6

**Session 2**

*PHPH9120	Clinical Development of Medicines	6
*PHPH9104	Law, Ethics and the Regulation of Medicines	6

<b>Total</b>		<b>24</b>
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## Course Descriptions

### School of Community Medicine

#### CMED9100

##### Independent Studies (4uc)

*Staff Contact:* Associate Professor Robyn Richmond

Enrolment Requires School approval

UOC4 S1 S2

Independent studies are designed to provide opportunities for candidates to pursue interests and areas not adequately addressed in existing courses. They are recommended particularly for candidates who wish to explore specific community health problems within their own communities or areas.

#### CMED9500

##### Epidemiology

*Staff Contact:* Professor John Kaldor

UOC6 HPW3 S1 S2

This course 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 course will build on statistics learnt in CMED9502 Statistics for Public Health. This course 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

UOC6 HPW3 S1 S2

This is a core course 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.

#### CMED9507

##### Major Project

*Staff Contact:* Associate Professor Robyn Richmond

Enrolment Requires School approval

UOC12 X1 S1 S2 X2

The project comprises in-depth study of a contemporary public health issue or topic. Candidates are expected to demonstrate their ability to apply knowledge and skills gained in the course, through: identifying and defining a significant issue; systematically collecting relevant, up-to-date information about the issue; analysing, interpreting and discussing the information; drawing conclusions; making recommendations; and writing a report in a manner consistent with academic standards at Master's level. The project may be in the form of a small-scale research study, a case study, a program evaluation or a report on field placement. Although candidates are advised to start planning project early in their program, it is normally undertaken after completion of all core and elective courses.

#### CMED9513

##### Applied Epidemiology

*Staff Contact:* Associate Professor Robyn Richmond

UOC4 HPW2 S2

*Prerequisite/s:* CMED9500

This course 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:* Professor J Lawson

UOC4 HPW2 S2

This course 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 Deborah Black

UOC4 HPW2 S2

*Prerequisite/s:* 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:* Dr Andrew Grulich

UOC4 HPW2 S1 S2

*Prerequisite/s:* CMED9500

Epidemiology has made a substantial contribution to public health policy and practice in a number of areas. The course 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 course will be on substantive findings, and the role played by epidemiological methods.

#### CMED9519

##### Demography

*Staff Contact:* Associate Professor Ian Burnley

UOC4 HPW2 S2

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****Psychiatry of Old Age**

*Staff Contact:* Dr Brian Draper  
UOC6 S1 S2

This course 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:* Professor Laurence Howes  
UOC6 S1 S2

This course 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 Gregory Bowring  
UOC6 S1 S2

This course 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 Aging**

*Staff Contact:* Dr George Stathers  
UOC6 S1 S2

This course 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 Services for Older People**

*Staff Contact:* Dr Christopher Poulos  
UOC6 S1 S2

A course 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:* Dr Roslyn Poulos  
UOC6 S1 S2

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.

**CMED9546****Major Research Project**

*Staff Contact:* Dr R Poulos  
UOC16 WKS14 S1 or S2

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 D. Chan  
UOC8 WKS14 S1 or S2

Candidates must complete 140 hours of supervised clinical experience at geriatric units approved by the School of Community Medicine, UNSW.

**CMED9548****Clinical Geriatrics 1**

*Staff Contact:* Dr. R. Clark  
UOC6 WKS14 S1 or S2

Presentation of disease - specific features of presentation in old age; nonspecific syndromes: eg: immobility, falls. System disorders: eg haematological, renal. Also special senses: hearing, vision.

**CMED9549****Clinical Geriatrics 2**

*Staff Contact:* Dr. P. Gonski  
UOC6 WKS14 S1 or S2

Presentation of disease - specific features of presentation in old age: nonspecific syndromes: eg incontinence, confusional states. System disorders: eg cardiac, respiratory, neurological, vascular, metabolic, bone, endocrine.

**CMED9550****Clinical Examination**

*Staff Contact:* Dr G Stathers

This is a clinical exam (oral), which is held in Sydney at the conclusion of the coursework component of the Graduate Certificate, the Graduate Diploma or the Master of Medicine Degree.

**CMED9602****Health and Illness Behaviour**

*Staff Contact:* Mr P Trebilco  
UOC4 HPW2 WKS14 S1

Consideration and evaluation of policy implementation in mental health promotion; application of socio-economic factors in mental illness and mental health assessments; theoretical considerations in the design of mental health promotion programs; analysis of the sources of health information, and consideration of the various models of information transmission.

**CMED9604****Alcohol and Other Drug Issues**

*Staff Contact:* A/Prof R Richmond  
UOC4 HPW2 WKS14 S1 or S2

Alcohol and Other Drug Issues is a wide ranging course that takes a public health approach. It has relevance for population health related to drug use, health management of people who are drug users and abusers, drug policy, and raises important controversial issues. Use of alcohol and other drugs is a major issue in determining the health of individuals and populations in developed and developing countries. The four components of this course are: the size of the drug problem; model of dependence; harm reduction; and relapse prevention. This course is a distance learning course offered in flexible delivery mode. At the end of this course students will understand the patterns of drug use and health effects; and will have learnt about issues of drug dependence. Students will learn about the range of public health approaches available to minimise problems related to substance abuse such as harm reduction strategies. Students will develop skills in brief interventions to use

with excessive drinkers and will appreciate the issues associated with relapse. This course provides students with important knowledge and skills that will enable them to plan effective alcohol and drug services.

#### CMED9605

##### Health in Developing Countries

*Staff Contact:* Dr John Hirschman  
UOC4 HPW2 S1 S2

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:* Ms Susan Beecher  
UOC4 HPW2 S1

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.

#### CMED9608

##### Rural Health Studies 1

*Staff Contact:* Dr David Sutherland  
UOC4 HPW0 S1 S2

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.

**Note/s:** External course, 4 tele-conferences, one 2-day workshop mid-term.

#### CMED9610

##### Food and Nutrition Policy Studies

*Staff Contact:* Ms Bloomfield  
UOC4 HPW2 S2

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.

#### CMED9612

##### Environmental Health

*Staff Contact:* Dr John Frith  
UOC4 HPW2 S1 S2  
*Prerequisite/s:* CMED9502

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.

#### CMED9615

##### Delivery of Health Services in the Community

*Staff Contact:* Professor Mark Harris  
UOC4 HPW2 S1 S2

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

#### CMED9618

##### Public Health Law and Ethics

*Staff Contact:* Associate Professor Paul McNeill  
UOC4 HPW2 S1 S2

This course 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  
UOC4 S1 S2

Students will attend a three day educational course 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:* Dr David Sutherland  
UOC4 S2

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.

**Note/s:** External Course, 4 tele-conferences and one 2 day workshop pre-term.

#### CMED9621

##### HIV/AIDS: Challenging and Changing Health Care Systems

*Staff Contact:* Dr Gregory Dore  
UOC4 HPW2 S2

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.

**CMED9626****Inequalities and Health**

*Staff Contact:* Mrs Elizabeth Harris  
UOC4 HPW2 S2

The course 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 course comprises three 1 day workshops with teleconferences after each workshop.

**CMED9627****Audit and Quality Assurance in Primary Care**

*Staff Contact:* Dr John Frith  
UOC4 S1 S2

This course aims to provide theory and practice in quality assurance and audit in General Practice. In the course 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 course will include distance education materials and manuals, teleconferences, one weekend workshop, audit manuals and material.

**CMED9632****Project in Monitoring Effective Health Care**

*Staff Contact:* Ms Deborah Black  
UOC4 HPW2 X1 S1

This course will allow students who have undertaken courses 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 course will be conducted in association with a health care provider or funding agency.

**CMED9633****International Tobacco Control**

*Staff Contact:* Associate Professor Robyn Richmond  
UOC4 HPW2 S1 S2

The worldwide toll of death and disability related to tobacco use is enormous. In this course we examine programs in countries that have made efforts to limit availability of tobacco and reduce its use, and the effectiveness of those efforts. This course examines the issues of tobacco control: what does it involve; how best can it be achieved; and how can it be evaluated. This course takes an international focus. Tobacco control initiatives are illustrated with examples from a wide range of countries, and the focus is specifically on how these approaches can be evaluated. Different approaches work best in different places, and this course explores how a tobacco control approach/strategy works in a particular country. This course includes how to evaluate an international tobacco control program. It is a valuable course for those concerned with how to prevent the damage that results from tobacco use, how to develop a tobacco control program and activities, and how to evaluate the effectiveness of such activities. This course is useful for doctors, nurses and other health practitioners, public health specialists, policy-makers and others in the public and private sectors of developed and developing countries. At the end of this course, students will understand the patterns of tobacco use and health effects of smoking, and will have learnt about nicotine dependence. Students will learn about the range of public health approaches available to reduce tobacco prevalence including the range of harm reduction strategies. Students will develop skills of brief interventions to use with smokers and will appreciate the issues associated with relapse. This course provides students with important knowledge and skills that will enable them to plan and evaluate an effective tobacco control program.

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**School of Health Services Management****HEAL9011****Statistics and Epidemiology**

*Staff Contact:* Dr M McLaws  
UOC6 HPW3 S1

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.

**HEAL9041****Health Care Systems**

*Staff Contact:* Dr Stephanie Short  
UOC6 HPW3 S1

The first part of the course 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 course 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**

*Staff Contact:* Mr Kevin Forde  
UOC6 HPW3 S1 S2

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  
UOC4 HPW2 X1 S1 S2  
*Prerequisite/s:* HEAL9071

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 courseivity of accounting numbers; political and financial pressures placed upon reporting and report formats. Alternative valuation techniques.

**HEAL9091****Healthcare Economics and Financial Management**

*Staff Contact:* Mr Kevin Forde  
UOC4 HPW2 S2

The economics of resource allocation in both the public and private healthcare systems. The impact of private health insurance and "user pays" on the efficiency and equity of healthcare markets. An introduction to double entry accounting to provide a working knowledge of cash and accrual accounting, plus an analysis of balance sheets, income statements and cash flow statements. How to apply budgeting, costing and capital budgeting to a healthcare environment.

**HEAL9111****Quality Assurance for Health Administrators***Staff Contact:* Ms Helen Lapsley

UOC4 HPW2 S2

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.

**HEAL9121****Measurement of Quality of Life, Health Status and Patient Satisfaction***Staff Contact:* Dr Rodney O'Connor

UOC4 HPW2 S1 S2

This course outlines the nature and use of Quality of Life, functional health status and patient satisfaction measures, and their increasing role in the evaluation of health programs. It presents the origins and nature of the most common generic instruments (eg SF36, QWB, SIP), selected disease-specific instruments and a patient satisfaction instrument and psychometric notions of validity, reliability and scaling. It presents a method for developing and evaluating such measures. Common generic and disease-specific instruments are introduced and reviewed.

**HEAL9301****Health Services Planning 1***Staff Contact:* Mr Ian Forbes

UOC4 HPW2 S1 S2

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 Ethics (Australia)***Staff Contact:* Mr Philip Bates

UOC4 HPW2 S1

*Prerequisite/s:* HEAL9041

This course will explore contemporary applied issues in law and related ethical matters of particular relevance to health services management, planning and delivery. The course matter will vary depending, in part, on the backgrounds and interests of enrolled students and the course coordinator's research programs.

**HEAL9341****Health Related Law and Ethics (Hong Kong)***Staff Contact:* Mr Philip Bates

UOC4 HPW2 S1

*Prerequisite/s:* HEAL9041

The course 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 course matter will vary depending, in part, on the backgrounds and interests of enrolled students and the course coordinator's research areas.

**HEAL9351****Health Economics 1***Staff Contact:* Ms Helen Lapsley

UOC6 HPW3 S2

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

UOC4 HPW2 S1 S2

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 M McLaws

UOC4 HPW2 S2

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:* Associate Professor Pieter Degeling

UOC4 HPW2 S2

*Prerequisite/s:* HEAL9041, HEAL9711;*Corequisite/s:* 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:* Dr J Braithwaite

UOC4 HPW2 S1

What is strategic planning? What does it mean to manage strategically? How do health service organisations (or, more accurately, the people with in 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 M McLaws

UOC4 HPW2 S2

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:* Professor James Lawson

UOC6 HPW2 S1

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:* Professor James Lawson  
UOC6 HPW3 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 course 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 Organizations**

*Staff Contact:* Dr Roderick Iedema  
UOC4 HPW2 S1 S2

A theoretical and practical course 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 Care Economics and Financial Management**

*Staff Contact:* Mr Kevin Forde  
UOC6 HPW2 S1

The economics of resource allocation in both the public and private healthcare systems. The impact of private health insurance and "user-pays" on the efficiency and equity of healthcare markets. An introduction to double entry accounting to provide a working knowledge of cash and accrual accounting, plus an analysis of balance sheets, income statements and cash flow statements. How to applying budgeting, costing and capital budgeting to a healthcare environment.

**HEAL9442****Health Resources Planning and Development**

*Staff Contact:* Mr Ian Forbes  
UOC6 HPW3 S2

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.

**HEAL9471****Comparative Health Care Systems**

*Staff Contact:* Mr Ian Forbes  
UOC6 HPW3 S1

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.

**HEAL9501****Computing Techniques for Health Services Management**

*Staff Contact:* School Office  
UOC4 HPW2 S2

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 - Health Administration or Planning**

*Staff Contact:* School Office  
UOC4 S2

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:* School Office  
UOC4

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  
UOC4 HPW2 X1 S2

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 the Work of Health Professionals**

*Staff Contact:* Dr Anna Whelan  
UOC4 HPW2 X1 S2

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 Organisations**

*Staff Contact:* Associate Professor Pieter Degeling  
UOC6 HPW3 S1

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.

**HEAL9741****Management of Health Services**

*Staff Contact:* Dr J Braithwaite  
UOC4 HPW2 S1

In this course we look at ways to improve how individuals manage. We explore contemporary management issues and challenges facing those who are responsible, now or in the future, for the managerial performance of health service organisation. We attempt in this course to bridge the theory - practice divide. A key concern is to examine various management tools, techniques and ideas and assess their usefulness. Specific topics examined include: some psychological aspects of management; organisational; communication; continuous improvement; and the management of change. Part of the course is devoted to providing insights into students own managerial style. A major theme is to develop the ability to generate improved solutions to managerial problems by utilising a reframing approach.

**HEAL9743****Introduction to Casemix**

Staff Contact: Dr Tessa Ho  
UOC4 HPW2 S2

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.

**HEAL9745****Managing Public Health Implementation**

Staff Contact: School Office  
UOC4 S2

This course will identify the salient features of public health initiative which are likely to affect their implementation and describe the detailed composition of different approaches to implementation, as well as identify the circumstances and types of initiative in which is best used. It maps the interrelationship between control and evaluation in policy implementation and how the detailed composition of the methods used in the either of these ultimately affects the substantive content of what takes place in implementation. Design and develop an implementation structure which will address the issues associated with and/or arising from the substantive content of a nominated public health policy, and private appropriate mechanism of control and evaluation.

**HEAL9746****Casemix & Contracting for Health Care**

Staff Contact: Professor D Hindle  
UOC4 HPW2 S1 S2

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 course 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.

**HEAL9747****Clinical Work Process Control**

Staff Contact: Professor Don Hindle  
UOC6 S1 S2  
Prerequisite/s: HEAL9748

This course examines the application of work process control structure methods in the organisation and management of clinical work. It examines how clinical pathways may provide methods for improving the evidentiary basis of clinical work and for improving the quality and technical efficiency of service delivery. The course is structured as a case study of a health service which provides hospital and community services to a sector of the capital city, and is funded for the most part according to a budget-share casemix formula. Students adopt the roles of senior managers and are expected to provide advice on key decisions to the chief executive and the clinical service directors.

**HEAL9748****Clinical Governance**

Staff Contact: Associate Professor Pieter Degeling  
UOC6 S1 S2

This course develops an appreciation of the way that the role of clinicians in health care delivery is being affected by changes in the social, legal, economic, organisational, informational and political contexts of health service organisation. At its completion, students will understand the principles of clinical governance and of the range of issues and problems that it is meant to address. The course requires students to appraise different approaches to improving clinical effectiveness, quality, service integration and the use of external value for money consideration in service design and delivery. Students carry out an extended case study and a range of problem-based exercises. This will provide students with an opportunity to examine what their changed role implies for their personal skills development. They are provided also with opportunities to analyse and address issues arising from efforts to extend clinical accountability.

**HEAL9751****Introduction to Management and Policy for Public Health**

Staff Contact: Dr J Braithwaite  
UOC4 HPW2 S1

**Note:** This is a core course 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 course 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.

**HEAL9771****Casemix for Clinician Managers**

Staff Contact: Associate Professor Pieter Degeling  
UOC4 HPW2 S1 S2

This course 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 course 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.

**HEAL9781****Evidence-Based Clinical Management**

Staff Contact: Dr Tessa Ho  
UOC4 S1 S2

The course has two main components. The first examines the philosophical debates concerning "Evidence-based" approaches to health care and clinical management. It looks at different beliefs about the nature of knowledge (positivistic, phenomenological/ social construction and critical) and with this explores issues about what can be considered "evidence". The difficulties of decision-making in a pluralistic work place and the problems that this poses for defining issues and work processes in clinical settings are also considered.

The second component focuses on the developing of practical skills in incorporating various sources and types of evidence in clinical management. Various types and sources of evidence, such as Cochrane Collaboration, hospital databases as well data resulting from the adoption of process control oriented approaches to clinical service provision, are presented and their relative merits discussed. Statistical methods directly applicable to creating visibilities about clinical process and practice will be presented and assessed. Hands-on practice with databases is included.

Students will gain knowledge and experience in searching databases; assessing literature; evaluating statistical methods and results; appraising methods of data generation, collection and evaluation; and developing a strategy for introducing a more evidence-based approach into their daily management of clinical work.

**HEAL9811****Sociology, Ethics and Health**

*Staff Contact:* Dr Stephanie Short  
UOC4 HPW2 S1

The first part of this course 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 course 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.

**HEAL9911****Independent Study (2 units of credit)**

*Staff Contact:* School Office  
Enrolment Requires School approval  
UOC2 S1 S2

**HEAL9921****Project (4 units of credit)**

*Staff Contact:* School Office  
Enrolment Requires School approval  
UOC4 X1 S1 S2

**HEAL9931****Project (12 units of credit)**

*Staff Contact:* School Office  
Enrolment Requires School approval  
UOC12 S1 S2

**HEAL9941****Project (8 units of credit)**

*Staff Contact:* School Office  
Enrolment Requires School approval  
UOC8 S1 S2

**HEAL9951****Research Project A (4 units of credit)**

*Staff Contact:* School Office  
Enrolment Requires School approval  
UOC4 S1 S2

**HEAL9961****Research Project B (4 units of credit)**

*Staff Contact:* School Office  
Enrolment Requires School approval  
UOC4 S1 S2

**HEAL9971****Dissertation**

*Staff Contact:* Dr McLaws  
Enrolment Requires School approval  
UOC24 S1 S2

**HEAL9972****Part-Time Dissertation**

*Staff Contact:* Dr McLaws  
Enrolment Requires School approval  
UOC12 S1 S2

**HEAL9974****Project (12 Units of Credit)**

*Staff Contact:* Ms Joanne Callen  
Enrolment Requires School approval  
UOC12 S1 S2

The project comprises in-depth study of a contemporary public health issue or topic. Candidates are expected to demonstrate their ability to apply knowledge and skills gained in the course, through: identifying and defining a significant issue; systematically collecting relevant, up-to date information about the issue; analysing, interrupting and discussing the information; drawing conclusions; making recommendations; and writing a report in a manner consistent with academic standards at Master's level. The project may be in the form of a small-scale research study, a case study, a

program evaluation or a report on field placement. Although candidates are advised to start planning project early in their program, it is normally undertaken after completion of all core and elective courses.

**HEAL9975****Project**

*Staff Contact:* Ms Joanne Callen  
UOC6 S1 S2

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## School of Medical Education

**MEED9001****Independent Study (2 Units of Credit)**

*Staff Contact:* Ms Joanne Callen  
Enrolment Requires School approval  
UOC2 S1 S2

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.

**MEED9002****Independent Study (4 Units of Credit)**

*Staff Contact:* Ms Joanne Callen  
Enrolment Requires School approval  
UOC4 S1 S2

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:* Ms Sally Nathan  
UOC4 HPW2 S1 S2

This course explores the meaning and conceptual frameworks of community development as an approach to improving the health of individuals and the broader community. The role of community development within the wider health development scene is critically examined and case studies of its various forms in practice are explored. Community development as an approach to the promotion of health is based on different principles from those in the clinical professions, and the course encourages health professionals to explore this different perspective and to consider its different skills. For those with field experience, this course will provide a strong theoretical basis and introduce some new practice tools. For those with little or no field experience, it provides a good mix of theories, models, practical examples and tools to introduce this exciting approach to improving health.

**MEED9012****Health Promotion**

*Staff Contact:* Ms Jan Ritchie  
UOC4 HPW2 S1 S2

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  
UOC4 HPW2 S1 S2

This ungraded elective explores the complexity and theoretical perspectives of influencing health beliefs and health behaviours. Issues such as risk perception, value systems, culture, inequality, motivation and education are discussed and current intervention models for change are analysed.

**MEED9015****Health Services Development and Implementation**

*Staff Contact:* Professor A Rotem  
UOC6 HPW3 S1

This course addresses institutional strengthening and capacity building in health services. The focus is on development and change. Particular attention is given to 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.

**MEED9108****Program Evaluation and Planned Change**

*Staff Contact:* Professor A Rotem  
UOC4 HPW2 S1

This course offers a framework and practical skills for the design of evaluation which is aimed to support decision making. 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.

**MEED9111****The Consultation Process**

*Staff Contact:* Professor A Rotem  
UOC4 HPW2 S1

The course is designed to explore the conceptual frameworks, processes and practices used by internal and external change agents and consultants in the implementation of organisation and community wide health initiatives. The course focuses on internal processes of change as well as 'third party' interventions. Managers and professional staff responsible for developing and implementing education and health programs are increasingly required to initiate and manage change. Change is also being driven by new technology, resource constraints and shifts in community needs. Knowledge and practical experience in the use of consultation processes is vital to ensure programs are well accepted and effectively delivered.

**Note/s:** Offered as series of workshops.

**MEED9113****Evaluation of Instructors**

*Staff Contact:* Ms Bloomfield  
UOC4 HPW2 S2

This seminar series covers current approaches to collecting, analysing and reporting information about the performance of instructors. Students are expected to recognise different purposes and approaches to evaluation and to acquire skills in designing an evaluation plan and instruments which are suitable for the range of instructional settings commonly encountered in health professions education.

**MEED9120****Qualitative Research Methods in Health Promotion**

*Staff Contact:* Dr Maher  
UOC4 HPW2 S1 S2  
*Prerequisite/s:* MEED9012

Explores a range of qualitative research methods and techniques, including participant observation, in-depth interviews and focus groups and their application to public health and health promotion. The course aims to provide students with skills for documenting and understanding how people interpret health and illness and the contexts in which they occur. Recommended for students wishing to undertake their major projects using qualitative methods.

**MEED9122****Primary Health Care: Policies, Programs & Perspectives**

*Staff Contact:* Dr Nossar  
UOC4 HPW2 S1

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.

**MEED9125****Designing Short Courses and Workshops**

*Staff Contact:* Dr Patricia Youngblood  
UOC4 HPW2 S1

This course is designed to help participants learn to plan, conduct and evaluate short courses and workshops. It is intended for health professionals who are responsible for providing staff development, continuing education or special purpose training sessions for other health professionals, trainees or for the community. Course participants will learn to assess needs of the target audience, identify learner characteristics and abilities, identify and classify learning outcomes, write learning objectives, select appropriate teaching and assessment methods and media, and evaluate the effectiveness of the educational experience. The course will be organised around the major steps in the instructional design process, including analysis, design, development, implementation and evaluation.

**MEED9129****Primary Health Care: Issues in Implementation**

*Staff Contact:* Mrs Elizabeth Murphy  
UOC4 HPW2 S2

This course 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:* Ms Di Corpo  
UOC4 HPW2 S1 S2

The course aims to provide an introduction to the use of information technology in higher education including the use of the Web to support teaching. The course explores whether, when and how to use information technology for educational purposes.

**MEED9131****Formulating Academic Proposals and Projects**

*Staff Contact:* Ms Furber  
UOC4 HPW2 S1 S2

This course 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.

**Note/s:** Weekly classes or workshop.

**MEED9133****Learning, Teaching and Assessment**

*Staff Contact:* Ms Bloomfield  
UOC4 S1

This course explores the current views about the conditions which support learning in the health professions and the requirements these imply for teaching. It focuses on adult learning in various settings commonly encountered in health professions education, ie universities, hospitals and the community.

**MEED9136****Culture, Health and Illness**

*Staff Contact:* Associate Professor M Eisenbruch  
UOC4 HPW2 S1

This course is for students who want to improve their cultural competence - as health workers, academics, educators, researchers, or policy makers - in working in multicultural settings in Australia, or in developing countries. Students will learn the basic theories and methods of disciplines (including medical anthropology, transcultural psychiatry, cross-cultural psychology, and cultural aspects of international health, and health within culturally pluralistic

societies) relevant to the study of health and illness in the setting of multicultural Australia and, at the same time, in developing countries in the Asia Pacific region.

#### MEED9140

##### Project Design and Monitoring in International Health

Staff Contact: Dr P Freeman

UOC4 S2

Prerequisite/s: CMED9502, CMED9500, HEAL9751

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. Course topics will cover all the major steps necessary to produce this plan.

**Note/s:** External Course.

#### MEED9144

##### Project

Staff Contact: Ms Joanne Callen

Enrolment Requires School approval

UOC12 S1 S2

The project comprises in-depth study of a contemporary public health issue or topic. Candidates are expected to demonstrate their ability to apply knowledge and skills gained in the course, through: identifying and defining a significant issue; systematically collecting relevant, up-to date information about the issue; analysing, interpreting and discussing the information; drawing conclusions; making recommendations; and writing a report in a manner consistent with academic standards at Master's level. The project may be in the form of a small-scale research study, a case study, a program evaluation or a report on field placement. Although candidates are advised to start planning project early in their program, it is normally undertaken after completion of all core and elective courses.

#### MEED9145

##### Project - Part A

Staff Contact: Ms Joanne Callen

Enrolment Requires School approval

UOC6 S1 S2

The project comprises in-depth study of a contemporary public health issue or topic. Candidates are expected to demonstrate their ability to apply knowledge and skills gained in the course, through: identifying and defining a significant issue; systematically collecting relevant, up-to date information about the issue; analysing, interpreting and discussing the information; drawing conclusions; making recommendations; and writing a report in a manner consistent with academic standards at Master's level. The project may be in the form of a small-scale research study, a case study, a program evaluation or a report on field placement. Although candidates are advised to start planning project early in their program, it is normally undertaken after completion of all core and elective courses.

#### MEED9146

##### Project - Part B

Staff Contact: Ms Joanne Callen

Enrolment Requires School approval

UOC6 S1 S2

The project comprises in-depth study of a contemporary public health issue or topic. Candidates are expected to demonstrate their ability to apply knowledge and skills gained in the course, through: identifying and defining a significant issue; systematically collecting relevant, up-to date information about the issue; analysing, interpreting and discussing the information; drawing conclusions; making recommendations; and writing a report in a manner consistent with academic standards at Master's level. The project may be in the form of a small-scale research study, a case study, a program evaluation or a report on field placement. Although candidates are advised to start planning project early in their program, it is normally undertaken after completion of all core and elective courses.

#### MEED9302

##### Learning in Small Groups

Staff Contact: Ms Susan Toohey

UOC4 S1 S2

This course explores how people operate as members and leaders of groups and the conditions underlying effective group work in both education and the work place. The emphasis is on experiential learning, observation of group process, improving skills in facilitating group learning and designing appropriate learning activities.

**Note/s:** External Course/Workshop. Can also be undertaken part-time over a full year.

#### MEED9303

##### Clinical Practice as a Discipline

Staff Contact: Mr Phillip Godwin

UOC4 S1 S2

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

**Note/s:** External Course.

#### MEED9304

##### Learning Clinical Reasoning

Staff Contact: Mr Phillip Godwin

UOC6 S1 S2

In this course 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.

**Note/s:** External Course. Can also be undertaken part-time over a full year.

#### MEED9306

##### Clinical Supervision

Staff Contact: Mr Christopher Hughes

UOC4 S1 S2

This course aims to help students develop a reflective and critical approach to the operational and educational supervision of staff and students that is effective, and that is based on relevant theory and on ethically defensible practice. It draws on models of supervision and facilitation taken from the management, adult education and clinical supervision literatures. The assignments focus both on the educational and operational supervision of individuals working on specific tasks, and on the planning and supervision of blocks of clinical experience for individuals or groups.

**Note/s:** External Course.

#### MEED9307

##### Exploring and Managing Ethical and Moral Dilemmas

Staff Contact: Dr Catherine Berglund

UOC4 S1 S2

This course guides the learner through the major ethical principles affecting clinical choices using a large array of contemporary clinical issues. The course is based on posing questions and 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 course 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 course aims to bring out that range. Assignments rely on students' consultations and clinical education experiences to explore ethical principles and their implications in the clinical setting.

**Note/s:** External Course.

#### MEED9308

##### Learning Clinical Decision Making

**Staff Contact:** Mr Phillip Godwin

UOC4 S1 S2

In this course 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 judgement 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.

**Note/s:** External Course. Can also be undertaken part-time over a full year.

#### MEED9309

##### Assessment of Clinical Performance

**Staff Contact:** Dr Peter Harris

UOC4 S1 S2

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

**Note/s:** External Course.

#### MEED9312

##### Research Into Clinical Education

**Staff Contact:** Dr Catherine Berglund

UOC6 S1 S2

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

**Note/s:** External Course.

#### MEED9313

##### Planning Educational Programs

**Staff Contact:** Dr Patricia Youngblood

UOC4 S1 S2

This course will focus on educational planning issues at the macro level (i.e. courses and programs). Participants will use an educational planning model to identify and analyse an educational problem, design an educational program to address the problem, and plan a strategy for evaluating the success of the program. 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 practicing health professionals. This course is particularly relevant for clinicians who are responsible for planning and conducting orientation or training sessions for medical students, interns, RMO staff and vocational trainees. It is offered in external mode, with an on campus workshop at the beginning of the session.

**Note/s:** External Course.

#### MEED9314

##### The Ward (or Office) as a Social and Learning Environment

**Staff Contact:** Dr Alexandra Smith

UOC4 S1 S2

This course uses the clinical setting of the ward, or the office, or the clinic as the unit of study of the formal and informal communication and management processes, professional role definition and 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.

**Note/s:** External Course.

#### MEED9315

##### Clinical Teaching

**Staff Contact:** Dr Peter Harris

UOC6 S1 S2

The course includes the planning and conduct of clinical teaching programs, preparation of the learners including assessment of the learner's readiness, 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 course also deals with the micro-skills of listening, questioning, probing and challenging, demonstrating, and involving the patient and other staff. Assignments include the study of the candidate's clinical teaching and the study and practice of clinical micro-skills.

**Note/s:** External Course. Can be undertaken part-time over a full year.

#### MEED9316

##### Learning Consulting Skills

**Staff Contact:** Dr Holmwood

UOC6 S2

In this course 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 in the candidate's setting.

**Note/s:** External Course/Workshop.

#### MEED9317

##### Clinicians as Managers

**Staff Contact:** Mr Phillip Godwin

UOC4 S1

This course 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 course 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.

**Note/s:** External Course/Workshop.

**MEED9351****Independent Study (2 Units of Credit)***Staff Contact:* Dr Peter Harris

Enrolment Requires School approval

UOC2 S1 S2

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 two to eight, according to the size of the independent study. \*These courses are part of the Master of, and Graduate Diploma in Clinical Education, and are available on a full fee paying external basis only.

**MEED9352****Independent Study (4 Units of Credit)***Staff Contact:* Dr Peter Harris

Enrolment Requires School approval

UOC4 S1 S2

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 two to eight, according to the size of the independent study. \*These courses are part of the Master of, and Graduate Diploma in Clinical Education, and are available on a full fee paying external basis only.

**Note/s:** Can be undertaken part-time over a full year.

**MEED9353****Independent Study (6 Units of Credit)***Staff Contact:* Dr Peter Harris

Enrolment Requires School approval

UOC6 S1 S2

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 two to eight, according to the size of the independent study. \*These courses are part of the Master of, and Graduate Diploma in Clinical Education, and are available on a full fee paying external basis only.

**Note/s:** Can also be undertaken part-time over a full year.

**MEED9354****Independent Study (8 Units of Credit)***Staff Contact:* Dr Peter Harris

Enrolment Requires School approval

UOC8 S1 S2

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 two to eight, according to the size of the independent study. \*These courses are part of the Master of, and Graduate Diploma in Clinical Education, and are available on a full fee paying external basis only.

**Note/s:** Can also be undertaken part-time over a full year.

**MEED9360****Major Project***Staff Contact:* Dr Peter Harris

Enrolment Requires School approval

UOC24 S1 S2

The final project is an important component of the MClinEd. Its purpose is to ensure that the knowledge and experience you gain from the program are transferable to seeking the solutions of clinical education in your own clinical setting. For this reason it is important that your project proposal should include information which will help you clarify and define the topic you wish to pursue and which will help you and your supervisor to proceed systematically with the exploration and planning of your project.

**Note/s:** External Course

**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:* Associate Professor Stewart Einfeld

UOC4 HPW2 S1 S2

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

UOC4 HPW2 S1 S2

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 G Alperstein

UOC4 HPW2 S2

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

UOC4 HPW2 S1 S2

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.

**PAED8201****Physical Growth and Development 1A***Staff Contact:* Professor Richard Henry

UOC4 HPW2 S1 S2

Foetal growth and development. Physical growth from birth to adolescence. Neurodevelopment. Assessment of growth and development.

**PAED8202****Physical Growth and Development 1B***Staff Contact:* Professor Richard Henry

UOC4 HPW2 S2

*Prerequisite/s:* PAED8201

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 1***Staff Contact:* Dr P McVeagh

UOC4 HPW2 S1 S2

Lactation, breast feeding. Nutritional requirements. Feeding of infants and children. Infant formulas.

**PAED8204****Infant Feeding and Nutrition 2***Staff Contact:* Dr P McVeagh

UOC4 HPW2 S1 S2

*Prerequisite/s:* PAED8203

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.

**PAED9101****General Paediatrics and Child Health 1***Staff Contact:* Dr Susan Russell

UOC8 S1 S2

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 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.

**PAED9102****General Paediatrics and Child Health 2***Staff Contact:* Dr Susan Russell

UOC8 S1 S2

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 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.

**PAED9617****Community Paediatrics***Staff Contact:* School Office

UOC4 HPW2

A broad view of Community Paediatric Services in contemporary Australia, how paediatrics is practised 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.

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## School of Physiology and Pharmacology

**PHPH5413****Sports Injuries 1***Staff Contact:* Dr David Garlick

UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed**PHPH5414****Sports Science***Staff Contact:* Dr David Garlick

UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed**PHPH5416****Sports Nutrition/Sports Pharmacology***Staff Contact:* Dr David Garlick

UOC6 S1 S2

The course 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, amino acid 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 in vivo 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.

**Note/s:** A compulsory course for MSpMed**PHPH5417****Sports Psychology/Clinical Biomechanics***Staff Contact:* Dr David Garlick

UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed

#### PHPH5423

##### **Sports Injuries 2**

*Staff Contact:* Dr David Garlick

UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed

#### PHPH5424

##### **Research Methods**

*Staff Contact:* Dr David Garlick

UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed

#### PHPH5426

##### **Applied Sports Medicine**

*Staff Contact:* Dr David Garlick

UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed

#### PHPH5433

##### **Medical Applications of Exercise 1**

*Staff Contact:* Dr David Garlick

UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed

#### PHPH5443

##### **Medical Applications of Exercise 2**

*Staff Contact:* Dr David Garlick

UOC6 HPW0 S1 S2

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.

#### PHPH5445

##### **Major Project and Report**

*Staff Contact:* Dr David Garlick

UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed

#### PHPH5461

##### **Principles of Pharmacology**

*Staff Contact:* School Office

UOC12 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 Larry Wakelin

UOC12 S1

*Prerequisite/s:* PHPH3152, PHPH5461

This course 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.

#### PHPH5491

##### **Pharmacology Project**

*Staff Contact:* Dr Larry Wakelin

UOC12 S1 S2

A small laboratory or industry based project or an extensive literature review or extensive data analysis in the area of drug development.

#### PHPH5501

##### **Basic Principles of Drug Actions Module 1 - Distance Education M.App.Sc. in Biopharmaceuticals**

*Staff Contact:* Dr Larry Wakelin

UOC6 S1 S2

This module covers general principals of pharmaco-dynamics and pharmaco-kinetics. Pharmaco-dynamics (what the drug does to the body) considers drug-receptor interactions, the basis of dose-response curves, reversible and irreversible antagonists, partial agonists and related topics. Events following the drug-receptor interaction, which include stimulation of second messenger systems and the pharmacology of ion channels, are described. The principles governing pharmaco-kinetics (what the body does to the drug) and their clinical importance are discussed in some detail. There are several simple graphical and problem solving exercises to be completed to aid your understanding of this material.

**PHPH5511****Selected Topics in Pharmacology - Module 2 - Distance Education M.App.Sc. in Biopharmaceuticals**

*Staff Contact:* Dr Larry Wakelin  
UOC6 S1 S2

For this module the topics were chosen to enable students to gain knowledge of the receptors in the human body with which drugs commonly interact to produce their main clinical effects, or their side-effects/toxicological actions. The module begins with an introduction to the autonomic nervous system, then works through autonomic receptors, receptors for histamine and serotonin, then to the newer areas of peptide receptors and cytokines, the latter areas being those for which drugs are now being developed. With this background, plus some reading material on receptors for drugs affecting the central nervous system, it is felt that students will be able to read and understand the pharmacology of most drugs in clinical use. A video which covers many autonomic drug effects on the cardiovascular system, plus questions based around this film, are included.

**PHPH5513****Sports Injuries 1**

*Staff Contact:* Dr David Garlick  
UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed

**PHPH5514****Sports Science**

*Staff Contact:* Dr David Garlick  
UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed

**PHPH5516****Sports Nutrition/Sports Pharmacology**

*Staff Contact:* Dr David Garlick  
UOC6 S1 S2

The course 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, amino acid 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 *in vivo* 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.

**Note/s:** A compulsory course for MSpMed

**PHPH5517****Sports Psychology/Clinical Biomechanics**

*Staff Contact:* Dr David Garlick  
UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed

**PHPH5521****Techniques for Drug Development - Module 3 - Distance Education MAppSc in Biopharmaceuticals**

*Staff Contact:* School Office  
UOC6 S1 S2

This module extends the concepts raised and discussed in the Basic Pharmacokinetics section of Module 1. More advanced pharmacokinetic problems, such as compartmentation, kinetics of effect and problems solving are included. The technique for measuring receptor binding is shown in some detail on video, with explanation of how the technique is set up, and how and why it is much used in new drug development. Also included in this module is a section on techniques used in the assay of drugs. The determination of molecular structure, and quantitation of drugs in the body are vital areas of drug development, and indeed pharmacokinetics depends upon such quantitation.

**PHPH5523****Sports Injuries 2**

*Staff Contact:* Dr David Garlick  
UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed

**PHPH5526****Applied Sports Medicine***Staff Contact:* Dr David Garlick

UOC6 S1 S2

This course 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. 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.

**Note/s:** A compulsory course for MSpMed**PHPH5543****Medical Applications of Exercise 2***Staff Contact:* Dr David Garlick

UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed**PHPH5613****Sports Injuries 1***Staff Contact:* Dr David Garlick

UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed**PHPH5623****Sports Injuries 2***Staff Contact:* Dr David Garlick

UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed**PHPH5633****Medical Applications of Exercise 1***Staff Contact:* Dr David Garlick

UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed**PHPH5643****Medical Applications of Exercise 2***Staff Contact:* Dr David Garlick

UOC6 S1 S2

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.

**Note/s:** A compulsory course for MSpMed**PHPH9100****Discovery and Pre-clinical Development of Medicines***Staff Contact:* Professor Richard Day

UOC6 S1

This course provides a general overview of the development of new medicines. It includes the following topics. History and philosophy of development of new medicines. Process of discovery: screening/ molecular modelling resulting in identification of lead compounds. High throughput screening, combinatorial chemistry. 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 of 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, pre-clinical issues, clinical development strategies. Company strategies: decision path analyses, resources, timelines.

**Note/s:** The course is compulsory for programmes 7370, 5504, and 9060.**PHPH9101****Principles of Drug Action***Staff Contact:* Professor Richard Day

UOC6 S1

This course provides a general overview of pharmacodynamics and pharmacokinetics including the following topics. The dose-response relationship as a function of pharmacokinetic and pharmacodynamic properties. Qualitative discussion of factors involved in determining pharmacokinetic properties: routes of administration, formulation, absorption, distribution, elimination (metabolism and excretion). Qualitative investigation of pharmacokinetics variables (bioavailability, volume of distribution, clearance, half-lives, etc.). The use of pharmacokinetic variables in dosage optimization. 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. A major feature of this course is the emphasis placed on instruction in using on-line library resources. These skills are used in all subsequent courses.

**Note/s:** The course is compulsory for programmes 7370, 5504, and 9060.

**PHPH9102****Pharmaceutical Development of Medicines***Staff Contact:* Professor Richard Day

UOC6 S1

This course begins with an introduction to Pharmaceuticals, which is the science of preparing and evaluating dose forms for the administration of medicines. Topics to be covered include 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 the 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 production fabrication to large-scale production.

**Note/s:** The course is compulsory for programmes 7370, 5504, and 9060.

**PHPH9104****Legal and Regulatory Development of Medicines***Staff Contact:* Professor Richard Day

UOC6 S2

This course 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; patents, 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 organization 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 process. Integration of regulatory affairs into the pre- and post-marketing planning and review of product development strategies. Input from international bodies and national agencies.

**Note/s:** The course is compulsory for programmes 7370, 5504, and 9060.

**PHPH9107****Therapeutics and the Molecular Basis of Disease 1***Staff Contact:* Professor Richard Day

UOC6 S1 S2

This course provides a basis for understanding the mechanisms involved in the disordering 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 five 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 mechanism of cell injury an necrosis, apoptosis, stress proteins and cell injury, subcellular alterations in cell injury, intracellular accumulations, pathologic calcification, hyaline change cellular aging. Section 3 covers cellular growth and differentiation including control of cell growth, extracellular matrix and cell-matrix interactions, and cellular adaptations of growth and differentiation. Section 4 deals with inflammation and repair and covers acute inflammation, chemical mediators of inflammation, chronic inflammation, morphologic

pattern in acute and chronic inflammation, systemic effects of inflammation, wound healing. Section 5 covers oedema, hyperaemia and congestion, haemorrhage, haemostasis and thrombosis, embolism and shock.

**Note/s:** The course is elective for programmes 5504, and 9060.

**PHPH9108****Therapeutic Basis of Drug Use and Development 1***Staff Contact:* Professor Richard Day

UOC6 S2

*Prerequisite/s:* PHPH9118, PHPH9107

This course aims to provide an understanding of the medical problems and treatments that need to be understood in developing new therapeutic agents and optimizing 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. The course begins with a review of drug safety including mechanism of adverse drug reactions and drug interactions, together with the influence of age, race and disease states on the tendency to develop adverse responses to medication. The course provides an integrated description of relevant physiology, pathophysiology, disease states: (a) infectious disease: bacterial, fungal, viral and parasitic infections; (b) immunological disorders: immunodeficiency, 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; (f) renal tract disorders: renal failure, disorders of renal tubule function, obstructive uropathies, myoneurogenic disorders, incontinence, neoplasms; (g) gastrointestinal disorders: oesophageal disorders, gastritis, peptic ulcer, diarrhoea and constipation, gastroenteritis, malabsorption syndromes, chronic inflammation of the bowel, gastrointestinal neoplasms; (h) hepatic and biliary disorders: jaundice, ascites, fibrosis, cirrhosis, hepatitis, neoplasms.

**Note/s:** The course is elective for programmes 5504, and 9060.

**PHPH9109****Therapeutic Basis of Drug Use and Development 2***Staff Contact:* Professor Richard Day

UOC6 S2

*Prerequisite/s:* PHPH9118, PHPH9107

The objectives of this course are the same as describe for course PHPH 9108. The course will provide an integrated description of relevant physiology, pathophysiology, disease state manifestations and clinical pharmacology with respect to the following disease: (a) nutritional and metabolic disorders: nutrition, nutritional deficiencies, obesity, water/electrolyte/acid-base metabolism; (b) endocrine disorders: disorders of the pituitary, thyroid, adrenal glands; disorders of carbohydrate metabolism; (c) gynaecological disorders: common problems, amenorrhoea and abnormal bleeding, endometriosis, breast disorders, neoplasms; (d) neurologic disorders: seizure disorders, sleep disorders, cerebrovascular disease, CNS infection and neoplasms, demyelinating diseases, disorders of movement, spinal cord disorders peripheral nervous system disorders; (e) psychiatric disorders: personality disorders, drug dependence, neuroses, mood disorders, schizophrenic disorders, delusional disorders; (f) 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; (g) ophthalmological disorders: disorders of the eyelids, conjunctiva, and cornea, cataract, uveal tract disorders, retinal disorders, glaucoma, disorders of the optic nerve; (h) 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 skin, disorders of cornification, tumours.

**Note/s:** The course is elective for programmes 5504, and 9060.

**PHPH9111****Pharmaceutical Formulation 2**

*Staff Contact:* Professor Richard Day  
UOC6 S1

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:* Professor Richard Day  
UOC6 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:* Professor Richard Day  
UOC6 S2

This course will extend the core course PHPH9104 Legal and Regulatory Development of New 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:* Professor Richard Day  
UOC6 S1

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.

**PHPH9116****Advanced Clinical Trials Management**

*Staff Contact:* Professor Richard Day  
UOC6 S2

*Prerequisite/s:* PHPH9100

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.

**PHPH9118****Therapeutics and the Molecular Basis of Disease 2**

*Staff Contact:* Professor Richard Day  
UOC6 S1 S2

*Prerequisite/s:* PHPH9107

This course is a continuation of the material covered in PHPH9107 and, like the previous course, aims to provide a basis for understanding the mechanisms involved in disordered physiology that underlies common disease states. The objective 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; infection, genetic disorders; and neoplasia. 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). Infection includes a brief introduction to microbiology, general principles of microbial pathogenesis, discussion of selected human infectious diseases. Genetic disorders includes a brief section on the new genetics, mutation, mendelian disorders, disorders with multifactorial inheritance, normal karyotype cytogenetic disorders, single-gene disorders with nonclassical 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. Aspect of molecular biology relevant to the preceding topics (e.g. gene therapy) will be discussed.

**Note/s:** The course is elective for programmes 5504, and 9060.

**PHPH9119****Providing Independent Drug Information for General Practice**

Staff Contact: Professor Richard Day

UOC6 S2

As strong communication skills are fundamental to the practice of educational visiting, the first focus of the course is to establish and maintain a good relationship with the doctor in the educational visiting situation. The workshop has been designed to : 1. provide the student with the fundamental knowledge needed to perform the task of the educational visitor; and, 2. guide the student through personal experiences of educational visiting in a supportive setting in order to develop the interpersonal skills necessary for the role.

**PHPH9120****Clinical Development of Medicines**

Staff Contact: Professor Richard Day

UOC6 S2

This subject provides an introduction to clinical epidemiology, statistics, clinical trial management and data management. A brief introduction to the principles of clinical epidemiology is provided as a basis for measurement of drug effects in humans, including sources of error, types of research studies, and study design. Introduction to statistics includes methods for descriptive statistics, normal distributions and methods for expressing probability distribution parameters including  $t$ , chi-square and  $F$ . Inferential statistics covers application of distribution parameters to decision making, hypothesis testing, choosing an inferential test, comparison of two means, the two-sample  $t$  test, analysis of variance, chi-square test, correlation, non-parametric tests, and calculation of confidence intervals.

Clinical trials management reviews all stages involved in conducting a clinical trial. The stages covered include the initial project proposal; development of the protocol and other trial related documentation required to gain ethical and regulatory approval for a clinical trial; planning of all trial related materials required to commence the study; conduct of the trial during patient recruitment and treatment; data management and analysis of the data generated from the study; reporting of the data and finally close out of the trial. Responsibilities of the sponsor in trial planning, approval, investigator selection, monitoring and auditing are discussed. The International Conference on Harmonization (ICH) code of Good Clinical Practice (GCP) is emphasized throughout the module.

**Note/s:** This subject is compulsory for programs 7370, 5504 and 9060.

**PHPH9121****Postmarketing Development of Medicines**

Staff Contact: Professor Richard Day

UOC6 S1

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.

**Note/s:** This course is compulsory for programs 7370, 5504 and 9060.

**PHPH9122****Quality Use of Medicines - Best Practice in Prescribing**

Staff Contact: Professor Richard Day

UOC6 S2

Best Practice Prescribing is designed to help practising GPs review and continually improve their clinical skills and performance in the area of prescribing. Participants effectively set their own standards for good practice in the therapeutic areas during their study as part of the semester course. They read and analyse key studies, guidelines and systematic reviews identified by expert faculty. The course texts also provide accepted guidelines for best practice in the therapeutic areas. Participants also use peer referencing as a standard when they discuss their conclusions about best practice (as derived from their own study of course materials) in the teleconference tutorials. Standards are derived from the research literature; the Therapeutic Guidelines series and the Australian Medicines Handbook in the six therapeutic areas.

Course participants collect data about their usual prescribing practice in the six therapeutic areas using a retrospective record audit. They identify patients with the medication and/or conditions of interest prospectively throughout normal consulting sessions, they review the previous two years' notes. They analyse their own data and send a summary in to the Course office. Participants are called on to review cases in each therapeutic area repeatedly throughout the course. Part of the exercise for each area involves assessing usual care against the standards developed through study and identifying potential areas for improvement. These exercises are discussed at tutorials. The course assignment requires a formal assessment and plan for improvement in one therapeutic area.

**Note/s:** This course is elective for Programs 5504 and 9060.



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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 programs and degrees offered see Table of Programs by Faculty (Undergraduate Study) in the Calendar.

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## Higher Degrees

For the list of postgraduate degrees by research and course work, arranged in faculty order, see UNSW Programs (by Faculty) in the Calendar. The conditions for the award of postgraduate degrees, diplomas and certificates appear in the relevant Faculty Handbook.

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### 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.*

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## 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 benefited 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;

(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.

*"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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## 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 courses 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 course. 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 48 units of credit 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.

## 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.

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## 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 program of advanced study for the award.

### 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.

### 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 program but who are qualified to enrol in 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.

(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 courses 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 36 units of credit. 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.

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## 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.

### **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 at least one calendar month before the commencement of the session 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 courses 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.

## **Master of Health Services Management (MHSM)**

1. The degree of Master of Health Services Management 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 at least one calendar month before the commencement of the session 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 courses 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 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:

## 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 courses 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 courses 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.

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## **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 courses 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.

### Fees

6. A candidate shall 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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## 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 of has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.

### Qualifications

2. A candidate for the degree shall have been awarded an appropriate degree of Bachelor from 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.

\* 'School' is used here and elsewhere in these conditions to mean any teaching unit authorised to enrol research students and includes a department where that department is not within a school, 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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## 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.

(2) A candidate for the degree shall be required to undertake such formal courses 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 course 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 60 units of credit with satisfactory completion of clinical examination and 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;

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.
- (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.

## 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 courses 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 40 units of credit.
- (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 two calendar months before the commencement of the course.
- (2) A candidate for the graduate diploma shall be required to undertake such formal courses 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 course and the satisfactory completion of assignments.
- (2) The Graduate Diploma in Community Paediatrics will be awarded after satisfactory completion of a program of 44 units of credit.

### Fees

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

## 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 courses 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 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 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 courses 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.

## 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 courses 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 courses, 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 courses 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 course 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 48 units of credit 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.

## **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 courses 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.

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## Graduate Certificate in Geriatric Medicine (GradCertGeriMed)

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 courses 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.

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## 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 courses 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.

(5) Articulation: a candidate holding the award of Graduate Certificate in Health Services Management from the University of New South Wales who, at a later date, wishes to enrol for the degree of Master of Health Administration or Master of Health Services Management may, at the discretion of the Committee, be awarded the degree after the successful completion of additional units or equivalent units of credit required of the program.

#### **Fees**

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

### **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 courses, 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.

### **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 courses 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 courses required for the program.

### **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 24 units of credit with satisfactory completion of clinical requirements.

### **Fees**

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



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 '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 Education, Training and Youth Affairs (DETYA) can be obtained from the Awards and Exchanges Section, DETYA, 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, Loans and Research Students Office, c/- NewSouth Q (Student Enquiries), 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 (ie 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 (eg 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:

**Scholarships, Loans and Research Students Office**  
**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)**

## Scholarships for students entering the first year of an undergraduate course

### General

#### 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. Selection is based on academic merit, aptitude and commitment to the course proposed; evidence of good citizenship; leadership potential; and diversity of interests. Consideration may be given in cases of hardship or disadvantage. Applications close early January.

#### The AUSIMM Education Endowment Fund (L)

- \$2,500-\$5,000pa
- 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 Rosts 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 are expected to be active members of a UNSW Sports Club. Each applicant will be assessed on the basis of outstanding ability in a particular sport. Consideration may also be given to an applicant's demonstrated ability, leadership qualities, potential to contribute to the wider life of the University, and any social and economic circumstances which might hinder a successful transition to UNSW. 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. Further information is available at the Co-Op program web page <http://co-op.web.unsw.edu.au>.

#### Department of Education and Training / UNSW Rural Assistance Scheme (L)

- \$2000
- 1 year

**Up to 50 Scholarships are available to help students from rural NSW in the transition to university study at UNSW.** Applicants must be accepted into the first year of an undergraduate degree program and may intend to commence study in any semester of a given academic year. Applicants must have attended a State Government High School in rural NSW prior to commencing study.

Selection will be based on academic merit, leadership qualities and potential to contribute to university life. Consideration will also be given to financial need, the impact of rural isolation and other relevant family circumstances. Special consideration will be given to Aboriginal applicants. Applications must include a statement of support from your High School Principal. Applications will normally close on 31 January.

#### **The Evan Fraser "Lexcen" Scholarship (I,L)**

- \$2,000 pa
- 1 year

The scholarship is available to encourage students with a disability who possess outstanding sporting abilities to undertake undergraduate study at UNSW. Where there is not a suitable candidate with a disability the scholarship may be offered to a student without a disability. Applicants must be enrolled, or proposing to, enrol in a program of at least two years duration at UNSW. Applicants should possess an outstanding ability in a particular sport and be active members of a UNSW sports club for the duration of the scholarship. Selection will be based on sporting ability. Consideration may also be given to demonstrated ability, leadership qualities, potential to contribute to the wider life of the University, and any circumstances which may hinder a successful transition to UNSW. Applications will normally close 31 January.

#### **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 award 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 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 Matthew James Reid Scholarship (L)**

- \$1,000
- one year only

The Scholarships are to be awarded to encourage students from interstate to undertake study in an undergraduate degree at UNSW. The Scholarship is available to a student who completed the HSC (or its equivalent) in the previous year. Applicants must normally be resident interstate. Selection will be based on academic merit, demonstrated ability, leadership qualities, and potential to contribute to the wider life of the University and community. Consideration may also be given to circumstances which might otherwise hinder successful transition to UNSW. Applicants will be required to submit a statement detailing their reasons for undertaking the course of study. Applications close 31 January.

#### **The National Health and Medical Research Council (NHMRC) Training Scholarship for Aboriginal Health Research (L,R)**

- \$16,135 - \$23,997 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 NewSouth Scholarships (L)**

- \$6,000
- 1 year

The scholarships are available to students commencing the first year of undergraduate study at UNSW in any discipline. Applicants must have achieved a UAI of at least 99.95 in the HSC (or equivalent) in the year prior to commencing study. Selection is also based on demonstrated ability, leadership qualities and potential to contribute to the wider life of the University. Consideration is also given to any social and/or economic circumstances which might otherwise hinder successful transition to UNSW. 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, Loans and Research Students Office 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 Simon Poidevin "Lexcen" Scholarship (I,L)

- \$2,000 pa
- 1 year

The Scholarships are to be awarded to encourage students with an outstanding ability in a particular sport to undertake undergraduate study at UNSW. Applicants must be enrolled in a program of at least two years duration at UNSW. Applicants should possess an outstanding ability in a particular sport. Scholarship recipients must be active members of the appropriate UNSW sports club for the duration of the scholarship. Selection will be based on sporting ability. Consideration may also be given to demonstrated ability and leadership qualities, potential to contribute to the wider life of the University, and circumstances which might otherwise hinder a successful transition to UNSW. Applications close 31 January.

### 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 St George Students' Association Lexcen Scholarship (L)

- \$2,000
- 1 year only

Two Scholarships will be awarded annually to high achieving sports persons undertaking, or proposing to undertake, study at UNSW. To be eligible, applicants must be enrolled in, or proposing to enrol in, a course of at least two years duration at UNSW. Applicants should possess an outstanding ability in a particular sport. It is desirable, but not essential, that an applicant's family home is located in the St George/Sutherland Shire region. Each applicant will be assessed on the basis of outstanding ability in a particular sport. Consideration may also be given to an applicant's demonstrated ability, leadership qualities, potential to contribute to the wider life of the University, any social and economic circumstances which may affect the applicant and academic merit. Application must be

made using the Ben Lexcen Scholarship application form. An interview may be required. Applications will normally close on 31 January.

### The Vice-Chancellor's Equity Scholarships (L)

- \$1,500 pa
- 1 year

In 1999, a small number of 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.

### UNSW Foundation Year Scholarships (I,L)

- \$5,000 payable towards tuition fees
- one year

The Scholarships are available to outstanding students with the highest GPA in each of the UNSW Foundation Year streams of Commerce/Arts, Design & Communication, and Physical/Life Science. Applicants must have graduated from the UNSW Foundation Year cohort directly prior to entry into a UNSW undergraduate degree. Selection is based on academic merit and enrolment in a UNSW undergraduate program. There is no application form. Selection is based on UNSW Foundation Year results.

### The UNSW Golden Jubilee Scholarships (I)

- Program fees for the minimum course duration less any advanced standing, subject to satisfactory progress
- No additional allowances are payable

The Scholarships have been established to encourage outstanding Diplomates from Singapore and Malaysia to complete an undergraduate degree at UNSW. To be eligible, applicant's must be proposing to undertake an undergraduate qualification at UNSW in one of the Faculties of Arts and Social Sciences, Built Environment, Commerce and Economics, Engineering, Life Sciences, Science and Technology, or the College of Fine Arts. Successful applicants will be granted advanced standing on the basis of their studies in Singapore and Malaysia. It is expected that the successful applicants will be the most outstanding or the second highest ranked final year diplomate graduating from Engineering, Business, Biotechnology, Mass Communications, Information Technology, Science, Architecture and Built Environment (including Industrial Design). Applicants must be graduates of the following institutions and have achieved the grades or standards indicated:

#### Singapore

Nanyang Polytechnic- A or Distinction Average over the duration of the course

Ngee Ann Polytechnic- A or Distinction Average over the duration of the course or be Merit Award Recipients

Singapore Polytechnic- A or AD/Distinction Average over the duration of the course

Temasek Polytechnic- A or Distinction Average over the duration of the course

**Malaysia**- students must have a GPA of 3.2 or above (or the equivalent)

Kolej Damansara Utama (KDU)

Institution of Technology Mara (ITM)

INTI College

PRIME College

Tunku Abdul Rahman College

Sepang Institute of Technology (SIT)

Applicants must submit a letter of recommendation from the Principal of the Polytechnic, or a senior member of staff nominated by the Principal, stating that they are the most outstanding final year student and that the requirements for the award of the Polytechnic medal or equivalent have been met. Applicants must be Citizens or Permanent Residents of Singapore or Malaysia. Selection will be based on academic merit. Applications will normally close on 30 November for study commencing in Session One of the following year and 30 April for study commencing in Session Two of the same year.

## Faculty Scholarships

### 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 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.

#### Rural Australia Medical Undergraduate Scholarships (RAMUS) (L)

The aim of RAMUS is to increase the number of students with a rural background taking up a career in Medicine. Scholarships are worth \$10,000 annually and are available to rural students attending Australian medical schools. Rural medical students at each year of study are encouraged to apply. For further information, contact the National Rural Health Alliance on 1800 460 440 or visit the website at: [www.ruralhealth.org.au](http://www.ruralhealth.org.au).

## Scholarships for students in their second or later year of study

### General

#### 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 are expected to be active members of a UNSW Sports Club. Each applicant will be assessed on the basis of outstanding ability in a particular sport. Consideration may also be given to an applicant's demonstrated ability, leadership qualities, potential to contribute to the wider life of the University, and any social and economic circumstances which might hinder a successful transition to UNSW. Applications close late January.

#### The Bill Pardy University Challenge Scholarship (I,L)

- \$1,000
- 1 year only

The Scholarship is established to recognise Bill Pardy's achievement in winning the 1998 University Challenge on the television program *Sale of the Century*, and to encourage students to participate in and contribute to the cultural life of the University. To be eligible, applicants must be enrolled in the second or later year of an undergraduate degree at UNSW. Each applicant will be assessed

on the basis of a personal statement detailing their previous and proposed contribution to the cultural life of the University. Consideration may also be given to academic merit. Applications will normally close on 31 March.

### **The Evan Fraser "Lexcen" Scholarship (I,L)**

- \$2,000 pa
- 1 year

The scholarship is available to encourage students with a disability who possess outstanding sporting abilities to undertake undergraduate study at UNSW. Where there is not a suitable candidate with a disability the scholarship may be offered to a student without a disability. Applicants must be enrolled, or proposing to, enrol in a program of at least two years duration at UNSW. Applicants should possess an outstanding ability in a particular sport and be active members of a UNSW sports club for the duration of the scholarship. Selection will be based on sporting ability. Consideration may also be given to demonstrated ability, leadership qualities, potential to contribute to the wider life of the University, and any circumstances which may hinder a successful transition to UNSW. Applications will normally close 31 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 (03) 5022 1515, Fax (03) 5023 3321, Email dfrdc@mildura.net.au.

### **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 may be available from The Kensington Colleges, Tel (02) 9315 0000, Fax (02) 9315 0011, Email kensocoll@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.

#### ***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.

### **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)**

- \$16,135 - \$23,997 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 October.

### 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](mailto:rhsu@nor.com.au), Web [www.nor.com.au/community/rhsu](http://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 Simon Poidevin "Lexcen" Scholarship (I,L)

- \$2,000 pa
- 1 year

The Scholarships are to be awarded to encourage students with an outstanding ability in a particular sport to undertake undergraduate study at UNSW. Applicants must be enrolled in a program of at least two years duration at UNSW. Applicants should possess an outstanding ability in a particular sport. Scholarship recipients must be active members of the appropriate UNSW sports club for the duration of the scholarship. Selection will be based on sporting ability. Consideration may also be given to demonstrated ability and leadership qualities, potential to contribute to the wider life of the University, and circumstances which might otherwise hinder a successful transition to UNSW. Applications close 31 January.

### The St George Students' Association Lexcen Scholarship (L)

- \$2,000
- 1 year only

Two Scholarships will be awarded annually to high achieving sports persons undertaking, or proposing to undertake, study at UNSW. To be eligible, applicants must be enrolled in, or proposing to enrol in, a course of at least two years duration at UNSW. Applicants should possess an outstanding ability in a particular sport and be active members of a UNSW sports club for the duration of the scholarship. It is desirable, but not essential, that an applicant's family home is located in the St George/Sutherland Shire region. Each applicant will be assessed on the basis of outstanding ability in a particular sport. Consideration may also be given to an applicant's demonstrated ability, leadership qualities, potential to contribute to the wider life of the University, any social and economic circumstances which may affect the applicant and academic merit. Application must be made using the Ben Lexcen Scholarship application form. An interview may be required. Applications will normally close on 31 January.

### 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 VIC 3169. Email [c.zaman@trf.telstra.com.au](mailto:c.zaman@trf.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](mailto: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.

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## Faculty Scholarships

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### Faculty of Medicine

#### The Dr Senthil Vasan Rural Medical Memorial Scholarship (L)

- \$1000
- 1 year

An applicant must be entering the fourth year of the MBBS course at UNSW. It is desirable, but not essential, that the student's family home is located in a rural area. The scholarship recipient will be required to spend two weeks of the year in Casino experiencing the activities of a rural medical practice and hospital. Each applicant will be assessed on the basis of academic merit. Applicants will be required to submit a brief resume and a statement detailing their interest in rural general practice. Applications should be made on the standard of UNSW scholarship application form and will normally close on 31 January.

#### Rural Australia Medical Undergraduate Scholarships (RAMUS)

The aim of RAMUS is to increase the number of students with a rural background taking up a career in Medicine. Scholarships are worth \$10,000 annually and are available to rural students attending Australian medical schools. Rural medical students at each year of study are encouraged to apply. For further information, contact the National Rural Health Alliance on 1800 460 440 or visit the web site at: [www.ruralhealth.org.au](http://www.ruralhealth.org.au).

#### The AMSA-Diners Club Rural Elective Bursary

Ten medical students throughout Australia taking a rural elective term in 5<sup>th</sup> year will be awarded up to \$2000 each through this Bursary. The Bursary recognises the needs of Australian rural health by awarding grants to further the experience of medical students in rural and remote locations. A point system is used to rank the applicants. The more remote the placement and the longer the elective stay, the more points are awarded. For further information contact Kaveh Monshat on Tel: 9314 7030. Applicants can be found in the May edition of AMSA Antics.

#### Bush Bursaries

Approximately ten Bush Bursaries and two CWA Scholarships are offered to select medical students in NSW medical schools. The rural shire of NSW and the Rural Doctors Network has founded the Bursaries. The Riverina Country Women's Association also supported a scholarship during 2000. It is expected there will be a similar number of Bush Bursaries and CWA Scholarships available to selected 3<sup>rd</sup> year students in 2000.

The Bursaries each worth \$2,500 are offered in association with the Rural Health Training Units and the Rural Doctors Resource Network. In return for this financial assistance, the students are expected to spend three weeks on a rural community placement in country NSW during their university holidays. The placement programs arranged for the students to reflect the enjoyable aspects of rural lifestyle as well as the multidisciplinary nature of rural health practice. The sponsoring rural shires and the Rural Health Training

Units at Tamworth, Dubbo, Wagga Wagga and Orange coordinates the placements. Applications for the Bush Bursary are available from the Rural Doctors Network. Tel: (02) 4929 1811 or from the RDN website: [www.nswrdn.com.au](http://www.nswrdn.com.au).

#### Department of Health, Rural Medicine Elective Bursary

Two \$1000 scholarships will be offered each year to Med IV students undertaking a full MFAC6001 elective term in a rural general practice in NSW. Applications should include the name and address of the general practitioner you have arranged your elective with, plus a short paragraph indicating why you chose to spend your elective in a rural general practice. Applications should be submitted by November 23 each year to Gallia Therin, School of Community Medicine, University of NSW, Sydney 2052. Tel (02) 9385 2520; email: [g.therin@unsw.edu.au](mailto:g.therin@unsw.edu.au).

#### Rural Elective scholarship

Two \$1,000 scholarships are available to Med VI students undertaking MFAC 6001 Elective Term. The scholarships are for students undertaking their elective in rural general practice in NSW. Applications should include the name/s and address of the general practitioner/s you have arranged your elective with, plus a short paragraph indicating why you chose to spend your elective in rural general practice. Applications should be sent to Gallia Therin, School of Community Medicine, University of NSW, SYDNEY NSW 2052. Tel: (02) 9385 2520; email: [g.therin@unsw.edu.au](mailto:g.therin@unsw.edu.au).

#### The Rural Resident Medical Officer Cadetship

This scholarship is available to medical students in their final two years of study. The scholarship offers 4<sup>th</sup> year medical students up to \$12,000 per year. In return, cadets undertake two years of rural practice in a rural base hospital in their Intern and RMO 1-year or their RMO1 and RMO 2 years. Such experience will provide students with the opportunity to access broad-based clinical experiences, develop closer relationships with senior colleagues and undertake vocational training through the Rural Health Training Unit. The rural hospitals available to undertake the two years service may include Wagga Wagga, Tamworth, Dubbo, Albury, Griffith, Goulburn, Bathurst and Orange. For further information on the Rural Resident Medical Officer Cadetship, contact Julie Kay at the Rural Doctors Network on (02) 4929 1811 or email on [jkay@nswrdn.aust.com](mailto:jkay@nswrdn.aust.com).

#### The Rural Undergraduate Placement Program

This program is based in the northern Territory. It is designed to provide educational experience for students interested in Rural and Aboriginal Health. Those accepted are eligible to have their accommodation, local flights and up to 80% of their interstate flights paid for. This program is designed for 6<sup>th</sup> Year Medical students doing electives. For further information contact the Rural Health Unit on 9385 3250.

## Honours Year Scholarship

### General

#### 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) 8303 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 possibility of renewal

The scholarships are available to students who are accepted into a course of at least two years duration. Prospective applicants are expected to be active members of a UNSW Sports Club. Each applicant will be assessed on the basis of outstanding ability in a particular sport. Consideration may also be given to an applicant's demonstrated ability, leadership qualities, potential to contribute to the wider life of the University, and any social and economic circumstances which might hinder a successful transition to UNSW. Applications close late January.

#### The CRC Reef Research Centre Support (I,L)

- \$1,000

Applicants must be undertaking a full-time Honours year project that could contribute to planning and managing the Great Barrier Reef Marine Park and to the Reef's ecologically sustainable development. Applications and further information may be obtained from The Administrative Assistant, CRC Reef Research Centre, James Cook University, Townsville QLD 4811, Email crcreef@jcu.edu.au. Applications close mid December.

#### 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 Evan Fraser "Lexcen" Scholarship (I,L)

- \$2,000 pa
- 1 year

The scholarship is available to encourage students with a disability who possess outstanding sporting abilities to undertake undergraduate study at UNSW. Where there is not a suitable candidate with a disability the scholarship may be offered to a student without a disability. Applicants must be enrolled, or proposing to, enrol in a program of at least two years duration at UNSW. Applicants should possess an outstanding ability in a particular sport and be active members of a UNSW sports club for the duration of the scholarship. Selection will be based on sporting ability. Consideration may also be given to demonstrated ability, leadership qualities, potential to contribute to the wider life of the University, and any circumstances which may hinder a successful transition to UNSW. Applications will normally close 31 January.

#### 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) 6272 5528. Applications close early November.



### The Ian Somervaille 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)

- \$17,071 - \$25,389 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 and enquires should be directed to the Executive Officer, RSPCA Australia, PO Box E369, Queen Victoria Terrace, Canberra ACT 2600, Tel (02) 62311437, Fax (02) 6282 8311, Web <http://www.rspca.org.au>. 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](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](mailto:rhsu@nor.com.au), Web [www.nor.com.au/community/rhsu](http://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 Simon Poidevin "Lexcen" Scholarship (I,L)

- \$2,000 pa
- 1 year

The Scholarships are to be awarded to encourage students with an outstanding ability in a particular sport to undertake undergraduate study at UNSW. Applicants must be enrolled in a program of at least two years duration at UNSW. Applicants should possess an outstanding ability in a particular sport. Scholarship recipients must be active members of the appropriate UNSW sports club for the duration of the scholarship. Selection will be based on sporting ability. Consideration may also be given to demonstrated ability and leadership qualities, potential to contribute to the wider life of the University, and circumstances which might otherwise hinder a successful transition to UNSW. Applications close 31 January.

### The St George Students' Association Lexcen Scholarship (L)

- \$2,000
- 1 year only

Two Scholarships will be awarded annually to high achieving sports persons undertaking, or proposing to undertake, study at UNSW. To be eligible, applicants must be enrolled in, or proposing to enrol in, a course of at least two years duration at UNSW. Applicants should possess an outstanding ability in a particular sport. It is desirable, but not essential, that an applicant's family home is located in the St George/Sutherland Shire region. Each applicant will be assessed on the basis of outstanding ability in a particular sport. Consideration may also be given to an applicant's demonstrated ability, leadership qualities, potential to contribute to the wider life of the University, any social and economic circumstances which may affect the applicant and academic merit. Application must be made using the Ben Lexcen Scholarship application form. An interview may be required. Applications will normally close on 31 January.

### **The Ukrainian Studies Foundation of Australia Endowed Scholarship (I,L)**

- \$1,000 in 2000, \$1,500 from 2001
- 1 year only

The Scholarship is available to students undertaking, or proposing to undertake, postgraduate or honours level studies at UNSW on a Ukrainian topic/theme, or comparative Ukrainian/Australian topic/theme. Selection will be based on academic merit and the reasons for undertaking the current and/or proposed studies. Applications will normally close on January 31.

### **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 Scholarships**

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### **Faculty of Medicine**

#### **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.

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## **Community Medicine**

### **The Raymond O. Sainty Honours Year Scholarship in Community Medicine**

- \$2,000
- 1 year

The scholarship is available to encourage students to undertake research into the impact of vitamins and nutrition on aging and improving the quality of life of the aged. Applicants must be undertaking a full-time Honours year in the School of Community Medicine. Selection will be based on academic merit, extracurricular activities and contribution to wider life of the University. Applicants will also be considered on the basis of a statement outlining their reasons for undertaking the research. Applications will normally close on 31 March.

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## **Paediatrics**

### **The Vida Rees Scholarship in Paediatrics (L,R)**

- \$1,000
- 1 year

Two Scholarships are available to students to undertake research in paediatrics in the Faculty of Medicine. Applicants must be undertaking an honours project or postgraduate research in paediatrics. Selection will be based on academic merit, demonstrated ability and leadership qualities, potential to contribute to the wider life of the University and consideration of financial need. Applications normally close on 31 October.

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## **Travel Scholarships**

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### **General**

#### **The Arthur Andersen 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 Andersen 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. Further information and application forms

are available from the International Student Centre. 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 Malcom Chaikin Overseas Exchange Scholarship

- \$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 Malcom 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. Further information regarding applications and participating institutions is available from [info@mitsui.com.au](mailto:info@mitsui.com.au). 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 NSW 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, Email [queens@ozemail.com.au](mailto:queens@ozemail.com.au), Web [www.ozemail.com.au/~queens](http://www.ozemail.com.au/~queens). Applications close in March.

### 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. Further information and application forms are available from the International Student Centre. 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

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](mailto:bcsydney@sprint.com). Applications close early November.

### **The STA Travel Scholarship (I,L)**

- Up to \$3,000

The Scholarship is available to a student undertaking a full-time degree or diploma of the University. The Scholarship will be awarded on the basis of a significant contribution to the community life of the University, for example, involvement in the University Union, leadership in student affairs, voluntary service to the University, and the relevance and merit of the proposed travel to the students academic program or the community life of the University. Consideration may also be given to the applicants academic achievements. Applications close normally close 31 March.

### **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, Box 7434, SE-103 91, Stockholm, Sweden, Email [grantinfo@si.se](mailto:grantinfo@si.se), Web <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.

### **The UNSW General Education Travel Scholarship (L)**

- \$3,000

The Scholarship is available to reward sustained high performance in general Education, promote the standing of General and Liberal Education, and encourage UNSW students to experience overseas study through participation in the University's International Exchange Program. Applicants must be accepted for the UNSW International Exchange Program. Selection will be based on sustained high performance in at least two General Education courses (excluding courses substituted for General Education courses, or for which an exemption has been granted) and above average performance in other courses. Consideration will also be given to the extent to which the proposed International exchange Program will contribute to the objectives of the General Education Program and the applicants potential to contribute to the wider life of the University and the general community. Applications for the International Exchange Scholarship close in June for the following Session One, and in October for the following Session Two.

### **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 +81 3 3238 2913, Fax +81 3 5275 1677.

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## Faculty Travel Scholarships

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### Faculty of Medicine

#### John Hirschman 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, UNSW, Tel (02) 9385 2520.

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## Vacation Scholarships

Some Schools offer scholarships for the long vacation period from December to February each year. Students should contact the relevant School office for information.

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## General

#### 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 [taylor@terra.net.au](mailto:taylor@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 3765, Fax (02) 6249 5995, Email [schlsec@rsc.anu.edu.au](mailto:schlsec@rsc.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](mailto: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 (03) 5022 1515, Fax (03) 5023 3321, Email [dfsrc@ozland.net.au](mailto:dfsrc@ozland.net.au). 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.

#### 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. Applications close 31 October.

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## **Faculty Vacation Scholarships**

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### **Faculty of Medicine**

#### **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.

#### **Children's Cancer Institute Australia (CCIA) Summer Vacation Scholarship (I,L,R)**

- \$1,200
- 6 to 8 weeks between December and February

The scholarships are available to undergraduate students who have completed at least two years of full-time study in medicine or a course related to biological science. The research project must be undertaken within the Children's Cancer Institute Australia for Medical Research. Further information is available from the Operations Manager, Children's Cancer Institute Australia for Medical Research, PO Box 81, Randwick, NSW 2031, Tel (02) 9382 1822, Fax (02) 9382 1850, Email p.heggie@unsw.edu.au.

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.





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# Postgraduate Scholarships

Following are details of scholarships available to postgraduate students at UNSW. The scholarships are listed by Faculty and course (eg 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, Loans and Research Students Office  
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)**

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## General Scholarships

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### Main programs of assistance for postgraduate study

#### **The Australian Postgraduate Awards (APA) (L,R)**

- \$17,071 pa (2000 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 Scholarship (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 International Postgraduate Research Scholarships (IPRS) (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 31 August.

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## Other General Scholarships

#### **Indigenous Researchers Development Scheme (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, Web <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 (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)**

- \$17,000 pa
- 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.

### **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) 8303 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)**

- \$24,413 pa (Medical postgraduates), \$16,415 (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, Tel (02) 9371 7952, Fax (02) 9371 9768, Email chata@fastlink.com.au. 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, UNSW, Sydney NSW 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 Marine Research - Supplementary PhD Awards (I,L)**

- \$8,000pa
- 3 years, subject to satisfactory progress

Supplementary PhD awards are offered to students with outstanding academic backgrounds and who are already in receipt of an APA, or similar scholarship. Applications, including details of research plan, university supervisor(s), previous research area, other professional experience, academic transcript and the names of two academic referees should be submitted to Ms Pam Powell, CSIRO Marine Research, PO Box 1538, Hobart TAS 7001, Email [pam.powell@marine.csiro.au](mailto:pam.powell@marine.csiro.au), Tel (03) 6232 5222, Fax (03) 6232 5000. Applications close 31 March.

### **The Dairy Research and Development Corporation (DRDC) Postgraduate Scholarships and Study Awards (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, Loans and Research Students Office or DRDC, Level 3, 84 William Street, Melbourne VIC 3000, Tel (03) 9602 5300. Applications close 31 October.

### **Faculty HECS Awards (L,C)**

- Substitution of HECS for tuition fees
- Duration of the course if eligibility criteria continue to be satisfied

UNSW HECS awards enable students to substitute a HECS liability for tuition 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. The Faculty HECS Awards are available for the following coursework programs: all programs in the Faculties of Built Environment, College of Fine Arts and Life Sciences; all programs in the Faculty of Arts & Social Sciences except for Couple and Family Therapy and Professional Ethics, all programs in the Faculty of Engineering except for Business and Technology and Technology Management, all programs in the Faculty of Medicine except for Drug Development and Sports Medicine, and all programs in the Faculty of Science and Technology except for Aviation and Optometry. For further information contact NewSouth Q (Student Enquiries), UNSW, Tel (02) 9385 3093/3094/3095.

### **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)**

- \$1,000

Applicants must be undertaking a full-time Masters or PhD research project that could contribute to planning and managing the Great Barrier Reef Marine Park and to the Reef's ecologically sustainable development. Applications and further information may be obtained from the Executive Officer, Great Barrier Reef Marine Park Authority, PO Box 1379, Townsville QLD 4810, Email [k.lally@gbrmpa.gov.au](mailto:k.lally@gbrmpa.gov.au). Applications close mid December 1999.

### **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.

### **HECS Scholarships (L,C)**

See Faculty HECS Awards and Postgraduate Equity Scholarship for further information.

### **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, Loans and Research Students Office or LWRRDC, GPO Box 2182, Canberra ACT 2601, Tel (02) 6257 3379. 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 Australian meat and livestock industry. Applications 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, Web <http://www.Vicnet.net.au/~menzies>. 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)**

- \$17,071 - \$25,389 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)**

- \$17,071 pa, \$22,030 for HIV/AIDS research, \$19,151 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)**

- \$25,389 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)**

- \$25,389 pa (medical/dental graduates), \$17,071 pa (other graduates), \$22,030 pa for HIV/AIDS research, \$19,151 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)**

- \$18,415 pa (science), \$24,413 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 Research Manager, National Heart Foundation, Victorian Division, 411 King St, Melbourne VIC 3003, Tel (03) 9329 8511, Fax (03) 9321 1574, Email [research@heartfoundation.com.au](mailto:research@heartfoundation.com.au). 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 enable postgraduate students to substitute the appropriate HECS liability for tuition 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 28 January and for Session Two close 15 July.

### **Financial Need HECS Substitution Scholarships**

Applicants may apply for the scholarship on the basis of financial need if the students are in receipt of a full allowance from the Department of Social Security (DSS), Department of Veteran Affairs, or AUSTUDY, or receiving the Family Allowance Supplement from DSS, or holding a Health Care Card issued by DSS. Applications will not be accepted without evidence of eligibility. The Postgraduate Equity Scholarships are available for the following coursework programs: Faculty of Arts and Social Sciences - Couple and Family Therapy and Professional Ethics, Faculty of Engineering - Business and Technology and Technology Management, Faculty of Medicine - Drug Development and Sports Medicine, Faculty of Science and Technology - Aviation and Optometry, and all programs for the Australian Graduate School of Management, Australian Defence Force Academy, Faculty of Commerce and Economics and the Faculty of Law. The Faculty of Law will also consider applications from students who are working in a legal or related area of a non-profit or community service organisation (eg a community legal centre, a community justice centre or legal-aid office) and whose current income is below \$45,000 pa; and from students working in a rural or isolated locations.

### **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.

### **Aboriginal and Torres Strait Islander Students**

Aboriginal and Torres Strait Islander students who are self-funded (ie whose fees are not being paid by their employer) can substitute a HECS liability for tuition fees. For further information contact the Aboriginal Education Program, UNSW, Tel (02) 9385 3085 or the Equity and Diversity Unit, Tel (02) 9385 5434.

### **The Re-Entry Scholarship for Women (I,L,R,C)**

- \$17,071 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, Loans and Research Students Office, 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 4<sup>th</sup> 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 [lanee@creativeaccess.com.au](mailto:lanee@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 toward 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](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 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](mailto:rhsu@nor.com.au), Web [www.nor.com.au/community/rhsu](http://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)**

- \$17,071 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 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 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 VIC 3169. Email [c.zaman@trl.telstra.com.au](mailto:c.zaman@trl.telstra.com.au). Applications close late September.

### **The Ukrainian Studies Foundation of Australia Endowed Scholarship (I,L)**

- \$1,000 in 2000, \$1,500 from 2001
- 1 year only

The Scholarship is available to students undertaking, or proposing to undertake, postgraduate or honours level studies at UNSW on a Ukrainian topic/theme, or comparative Ukrainian/Australian topic/theme. Selection will be based on academic merit and the reasons for undertaking the current and/or proposed studies. Applications will normally close on January 31.

### 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.

### The University of NSW Federation Scholarships (I,C)

- Tuition fees
- 1 year

The Scholarships are established to encourage students from the United States of America and Canada to complete postgraduate study at UNSW. Applicants must be proposing to undertake a postgraduate coursework qualification of one year's duration in one of the Faculties of Arts and Social Sciences, Commerce and Economics, Engineering, Life Sciences, Medicine and Science and Technology. Selection will be based on academic merit. Applications close 31 March for study commencing in Session Two.

### 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, 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.

## Faculty Scholarships

### Faculty of Medicine

#### Children's Cancer Institute Australia (CCIA) Postgraduate Supplementary Award (I,L,R)

- Up to \$5,200 pa (2000 rate)
- 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 PhD study within the Children's Cancer Institute Australia for Medical Research. Candidates must hold a Bachelor of Science (Hons) degree or MBBS or equivalent qualification. Applicants should be in receipt of an APA or similar scholarship. Further information is available from the Operations Manager, Children's Cancer Institute Australia for Medical Research, PO Box 81, Randwick NSW 2031, Tel (02) 9382 1822, Fax (02) 9382 1850, Email [p.heggie@unsw.edu.au](mailto:p.heggie@unsw.edu.au)

#### Children's Cancer Institute Australia (CCIA) Postgraduate Research Scholarship (I,L,R)

- \$22,256 pa for PhD and \$26,000 pa for MD (2000 rate)
- Up to 3 years

The Scholarships are available to students enrolled in the Faculty of Medicine, UNSW and undertaking full-time PhD study within the Children's Cancer Institute Australia for Medical Research. Candidates must hold a Bachelor of Science (Hons) degree or MBBS or equivalent qualification. Further information is available from the Operations Manager, Children's Cancer Institute Australia for Medical Research, PO Box 81, Randwick NSW 2031, Tel (02) 9382 1822, Fax (02) 9382 1850, Email [p.heggie@unsw.edu.au](mailto:p.heggie@unsw.edu.au)

### The Faculty of Medicine's Deans Scholarship (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 doctorate 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 2457, Email [info@notes.med.unsw.edu.au](mailto:info@notes.med.unsw.edu.au). It is expected that a new award will be available in 2002.

### The Lions Club Scholarship for Cord Blood Research (I,L,R)

- Up to \$22,256 pa for PhD and \$26,000 pa for MD (2000 rate)
- Up to 3 years

The Scholarship is available to a student enrolled in the Faculty of Medicine, UNSW and undertaking full-time PhD study in haematology or a related field within the Children's Cancer Institute Australia for Medical Research. Candidates must hold a Bachelor of Science (Hons) degree or MBBS or equivalent qualification. Selection will be based on academic merit and the merit of the proposed research. Only one student can be supported at any time. The award is expected to be available again in 2002. Further information is available from the Operations Manager, Children's Cancer Institute Australia for Medical Research, PO Box 81, Randwick NSW 2031, Tel (02) 9382 1822, Fax (02) 9382 1850, Email [p.heggie@unsw.edu.au](mailto:p.heggie@unsw.edu.au)

### The Wally Leyman Memorial Scholarship (L,R)

- \$22,256 pa for PhD and \$26,000 pa for MD (2000 rate)
- Up to 3 years, subject to satisfactory progress

The Scholarship is available to a student enrolled in the Faculty of Medicine, UNSW and undertaking full-time PhD study within the Children's Cancer Institute Australia for Medical Research. Candidates must hold a Bachelor of Science (Hons) degree or MBBS or equivalent qualification. Selection will be based on academic merit and the merit of the proposed research. Only one student can be supported at any time. The award is expected to be available again in 2001. Further information is available from the Operations Manager, Children's Cancer Institute Australia for Medical Research, PO Box 81, Randwick NSW 2031, Tel (02) 9382 1822, Fax (02) 9382 1850, Email [p.heggie@unsw.edu.au](mailto:p.heggie@unsw.edu.au)

## Paediatrics

### The Vida Rees Scholarship in Paediatrics (L,R)

- \$1,000
- 1 year

Two Scholarships are available to students to undertake research in paediatrics in the Faculty of Medicine. Applicants must be undertaking an honours project or postgraduate research in paediatrics. Selection will be based on academic merit, demonstrated ability and leadership qualities, potential to contribute to the wider life of the University and consideration of financial need. Applications normally close on 31 October.

## 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.

## General

### 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) 6270 4000, Fax (02) 6270 4083, Email [eva.zarka@cnbra01.x400.gc.ca](mailto:eva.zarka@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 <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
- 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, Menzies Centre for Australian Studies, University of London, 28 Russell Square, London WC1B 5DS, UK, Tel +44 171 862 8854, Fax +44 171 580 9627, Email [mcintyre@sas.ac.uk](mailto:mcintyre@sas.ac.uk). Applications close late October.

### **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 Street, 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 (02) 9326 2022, Fax (02) 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, Web <http://www.anu.edu.au/cabs/scholarships/cambridge/cambridge-austrust.html>. 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 [rachel@aaef.anu.edu.au](mailto:rachel@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 \$32,530, 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> Tel (02) 6247 9331, Email [rachel@aaef.anu.edu.au](mailto:rachel@aaef.anu.edu.au). Applications close 30 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,C)**

- \$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 from Sylvia Browning, CHERE, University of Sydney, Level 6, Building F, 88 Mallett St, Camperdown NSW 2050, Tel (02) 9351 0900, Fax (02) 9351 0930. Web <http://www.cmwf.org>. Applications close late 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 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](mailto: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 Research Corporation (MRC) 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 late 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) 9326 2022. 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](mailto: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 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 1 September.

### 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 an Honours graduate of an Australian university who intend to return to Australia after studies at Harvard or to represent Australia overseas. Applicants must be eligible for, and have applied for admission to a degree program in a graduate school of Harvard University. The scholarships are awarded on the basis of academic excellence and personal qualities such as leadership and public duty. Applications and additional information may be obtained from the Administrative Officer, Council and Board Secretariat, ANU, Canberra ACT 0200. Fax (02) 6279 8524, Email [cabs.admin@anu.edu.au](mailto:cabs.admin@anu.edu.au), Web <http://www.anu.edu.au/cabs/scholarships>. 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

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 Scholarship (I,L,R,C)

- Up to \$3,000

The Scholarship is available to a student undertaking a full-time degree or diploma of the University. The Scholarship will be awarded on the basis of a significant contribution to the community life of the University, for example, involvement in the University Union, leadership in student affairs, voluntary service to the University, and the relevance and merit of the proposed travel to the student's academic program or the community life of the University. Consideration may also be given to the applicants academic achievements. Applications close 31 March.

### 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, Box 7434, SE-103 91, Stockholm, Sweden, Email grantinfo@si.se, Web <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 +81 3 3238 2913, Fax +81 3 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 programs. 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 course

#### The Spirit of Reconciliation Prize

- \$150

For the best piece of work with an Aboriginal theme, emphasising the importance of reconciliation, undertaken by a student in any faculty

#### 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 program

#### 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 Combined Teaching Hospitals Senior Staff Prize

- \$500

For the best performance in the clinical years of program 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 program

#### 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 program 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 course in Year 5 of program 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or Year 6 of program 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 program 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 W G Telleson Memorial Prize**

- \$150

For the best performance in MDSG3001 Clinical Studies in Year 3 of program 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or Year 4 of program 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 program 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 courses by a graduand in the Bachelor of Science degree program 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 program 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 program

### **The Prize in Practical Anatomy**

- \$200

For the best performance in Practical Anatomy (including Radiological Anatomy) in Year 2 of program 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 program

### **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

### **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 program 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery, or Year 6 of program 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 program 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery or a Year 6 student in program 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 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 program.

#### **The NSW Department of Health Prize**

- \$500

For the best performance in the Community Medicine component of MDSG4001 Integrated Clinical and Community Studies in program

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 Rural General Practice Prize**

- \$300

The prize shall be open to all students proceeding to the degree of Bachelor of Arts, Bachelor of Science (Medicine), Bachelor of Surgery and shall be awarded for the best performance in the Rural General Practice component of MFAC56001 Geriatrics/General Practice/Specialties, determined by the level of achievement in the Rural General Practice Assignment, the GP exam and the GP supervisor evaluation.

**The Rural Hospital Prize**

- \$300

The prize shall be open to all students proceeding to the degree of Bachelor of Arts, Bachelor of Science (Medicine), Bachelor of Surgery and shall be awarded for the best performance in the Rural Hospital Term, a component of MDSG6001 Integrated Clinical Studies 6 and determined by the level of achievement in the Rural Hospital Term Essay and the evaluation by the Rural Hospital Clinical Coordinator.

**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%)

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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 program 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 Pharmacia & Upjohn Prize in Obstetrics and Gynaecology**

- \$125

For the best performance in the Obstetrics and Gynaecology term by a student at Liverpool Hospital

**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 program 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 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 program 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 program 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 program 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 Macquarie Prize for Experimental Pathology**

- \$325

For the most proficient research work done in Basic or Applied Pathology in program 3831 Bachelor of Science (Medicine) Honours

**The Hampson Sugerman Macquarie Prize in Clinical Pathology**

- \$325

For the best performance in a combination of PATH3101 Pathology and MDSG4001 Integrated Clinical and Community Studies by a student in program 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 program 3801 Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery in the Faculty of Medicine or program 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 program 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 program

### The F C Courtice Prize

- \$100

For the best performance in PHPH2018 Medical Physiology 1 in program 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 program

### 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 program 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 program 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 program 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 program 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 program 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 program 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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## 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 program

#### The John Hirshman Prize in Community Health

- \$200

For the best overall performance in the Master of Public Health degree program

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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 Services Management degree program by a student studying in Australia.

#### 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 Services Management degree program by a trained nurse registered in Australia

#### The Australian College of Health Service Executives Prize

- \$200

For the best performance in the core Management course in the Master of Health Administration degree program

#### The Hunt and Hunt Health Law I Prize

- \$200

For the best performance in HEAL9331 Health Related Law and Ethics by an internal or external student studying in Australia, in the Master of Health Services Management, Master of Health Administration or Master of Public Health degree program

#### The School of Health Services Management Staff Prize for the MHA in Hong Kong

- \$200

For the best overall performance in the MHA degree program undertaken from Hong Kong



# The University of New South Wales • Kensington Campus

## Theatres

Applied Science Theatre **F11**  
Athol Lykke Theatre **C27**  
Biomedical Theatres **E27**  
Central Lecture Block (CLB) **E19**  
Clancy Auditorium **C24**  
Classroom Block (*Western Grounds*) **H3**  
Fig Tree Theatre **B14**  
Heffron Theatres (*Dwyer, Mellor, Murphy, Nyholm, Smith*) **E12**  
Io Myers Studio **D9**  
Keith Burrows Theatre **J14**  
Maccauley Theatre **E15**  
Mathews Theatres **D23**  
Parade Theatre **E3**  
Physics Theatre **K14**  
Rex Vowels Theatre **F17**  
Science Theatre **F13**  
Webster Theatres **G15**

## Buildings

AGSM **G27**  
Applied Science **F10**  
Arcade **D24**  
Barker Apartments **N13**  
Basser College **C18**  
Baxter College **D14**  
Biological Sciences **D26**  
Blockhouse **G6**  
Chancellery **C22**  
Civil Engineering **H22**  
Dalton **F12**  
Electrical Engineering **G17**  
Goldstein College **D16**  
Golf House **A27**  
Helfron **E12**  
International House **C6**  
Geography and Surveying **K17**  
Goodsell **F20**  
Kensington Colleges (*Office*) **C17**  
Library (*University*) **E21**  
Library Stage 2 **F21**  
Mechanical Engineering **J17**  
Main **K15**  
Mathews **F23**  
Morven Brown **C20**

Myers, Sir Rupert **M15**  
New College **L6**  
Newton **J12**  
NIDA **D2**  
Parking Station (Barker Street) **N18**  
Parking Station (Botany Street) **H25**  
Pavilions, The **E24**  
Philip Baxter College **D14**  
Quadrangle **E15**  
Red Centre **H13**  
Roundhouse **E6**  
Sam Cracknell Pavilion **H8**  
Samuels **F25**  
Shalom College **N9**  
Squarehouse **E4**  
The Scientia **G19**  
University Regiment **J2**  
Vallentine Annexe **H22**  
Wallace Wurth School of Medicine **C27**  
Warrane College **M7**  
Webster, Sir Robert **G14**  
Willis Annexe **J18**

## Faculty Offices

Arts and Social Sciences **C20**  
Australian Graduate School of Management  
AGSM **G27**  
Built Environment **H13**  
Commerce and Economics **F20**  
Engineering **K17**  
Law (Library Stage 2) **F21**  
Life Sciences **D26**  
Medicine **B27**  
Science and Technology **E12**

## School Offices

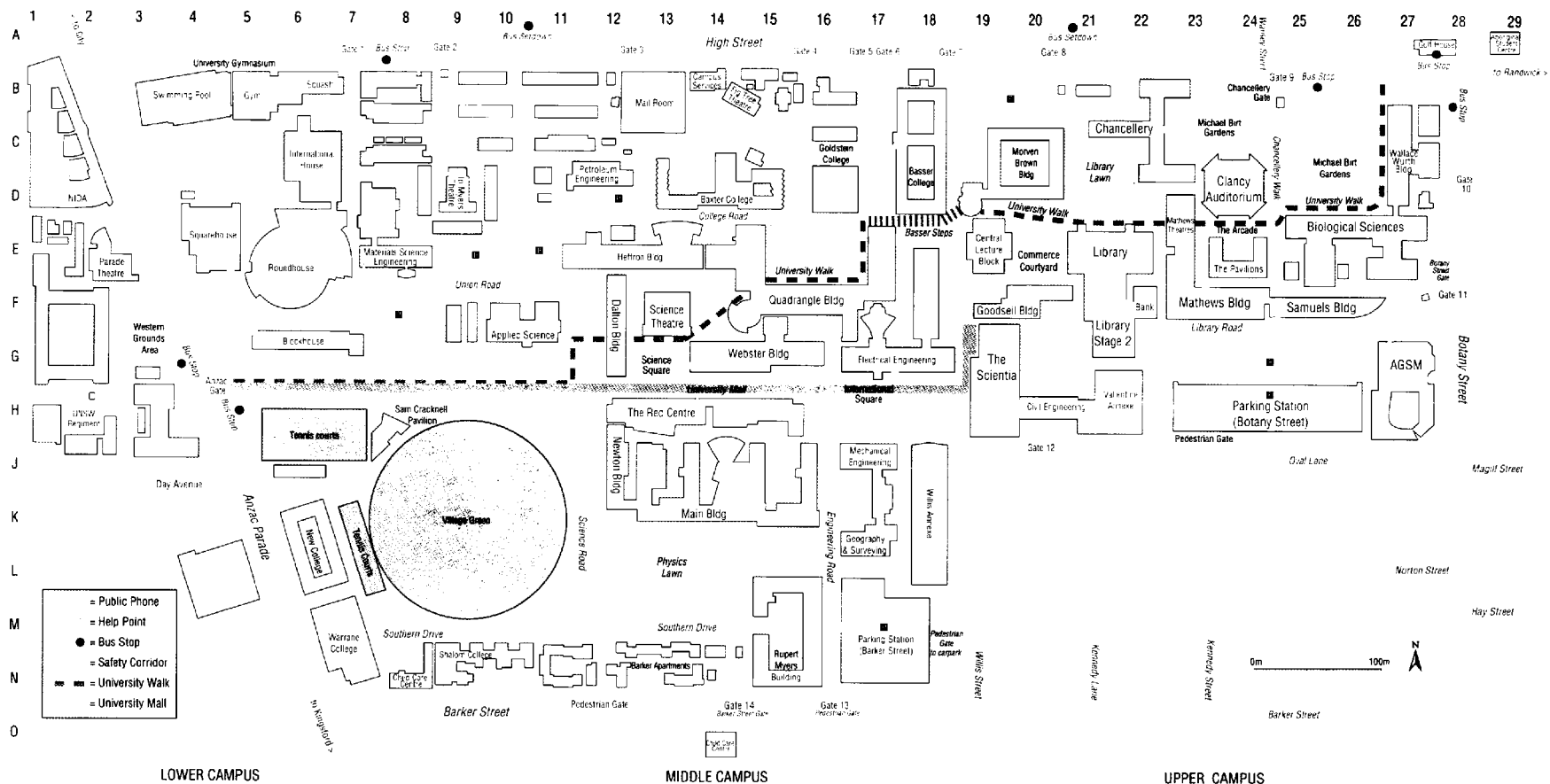
Accounting **E15**  
Anatomy **B27**  
Applied Bioscience **D26**  
Architecture Program **H13**  
Banking and Finance **F20**  
Biochemistry and Molecular Genetics **D26**  
Biological Science **D26**  
Building Construction  
Management Program **H13**

Business Law and Taxation **E15**  
Chemical Engineering and Industrial Chemistry  
**F10**  
Chemistry **E12**  
Civil and Environmental Engineering **H20**  
Community Medicine **F25**  
Computer Science and Engineering **K17**  
Economics **F20**  
Education Studies **F23**  
Electrical Engineering and Telecommunications  
**G17**  
English **C20**  
Geography **F10**  
Geology **F10**  
Geomatic Engineering **K17**  
Health Services Management **F25**  
History **C20**  
Industrial Design Program **H13**  
Industrial Relations and Organisational  
Behaviour **F20**  
Information, Archive and Library Studies **F23**  
Information Systems **E15**  
Interior Architecture Program **H13**  
International Business **E15**  
Landscape Architecture Program **H13**  
Law (Library Stage 2) **F21**  
Marketing **F20**  
Materials Science and Engineering **E8**  
Mathematics **H13**  
Mechanical and Manufacturing Engineering **J17**  
Media and Communications **G15**  
Medical Education **C27**  
Microbiology and Immunology **D26**  
Mining Engineering **K15**  
Modern Language Studies **C20**  
Music and Music Education **G15**  
Optometry **M15**  
Paediatrics **C27**  
Pathology **C27**  
Petroleum Engineering **D12**  
Philosophy **C20**  
Physics **K15**  
Physiology and Pharmacology **C27**  
Planning and Urban Development Program **H13**  
Political Science **C20**  
Psychology **F23**  
Safety Science **B11a**  
Science and Technology Studies **C20**  
Social Science and Policy **C20**  
Social Work **F23**

Sociology **C20**  
Theatre Film and Dance **G14**

## Services

Aboriginal Student Centre **A29**  
Access Scheme – Equity and Diversity Unit **E15**  
Accommodation – Housing Office **E15**  
Admissions and Enrolment – Student Centre **C22**  
Biomedical Library **F23**  
Campus Conferencing **C22**  
Campus Services **B14a**  
Cashier **C22**  
Careers and Employment Office **E15**  
Chaplains **E4**  
Child Care Centres -  
House at Pooh Corner **N8**  
Kangas House **O14**  
Tiggers/Honey Pot – 34 Botany St.  
Co-op program **M15**  
CONTACT **E15**  
Counselling Service **E15**  
Educational Testing Centre **E4**  
Equity and Diversity Unit **E15**  
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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.