Subjects, courses and any arrangements for courses including staff allocated as stated in this Handbook are an expression of intent only. The University reserves the right to discontinue or vary arrangements at any time without notice. Information has been brought up to date as at 1 November 1993, but may be amended without notice by the University Council.
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It is a pleasure to welcome you to The University of New South Wales and to congratulate you on your entry to the medical course. Competition for entry to this course is intense and you have all demonstrated considerable academic achievement in obtaining a place. You are, therefore, well equipped to commence your undergraduate studies and I sincerely hope that your years as students in the Faculty will be happy, interesting and productive.

The Faculty of Medicine in this University was founded in 1959 and has developed into a strong and vigorous academic community. It offers opportunities for you to develop knowledge, skills and experience in a wide variety of fields ranging from the personal problems of patients to matters which are of a most complex technological and scientific nature. Over the past 33 years the medical undergraduate curriculum has evolved in accordance with changing concepts in medicine and the changing needs and expectations of the community. The curriculum is under constant review and it is probable that changes will occur during your undergraduate years. Indeed, 1988 saw the introduction of the first year of a new six year undergraduate curriculum. The new course came after considerable review of the former five year curriculum and one of its objectives is to give students more time to reflect upon their studies in the preclinical years and an opportunity to gain increased clinical exposure during the clinical years of the course.

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

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

This Handbook is available to all students in the medicine course and the combined Science/Medicine and Arts/Medicine courses and it is important that you read it and succeeding editions, and retain it for reference. Information about course content, assessment procedures and rules of progression for each year of the course is published in the Handbook. You are advised also to consult frequently the noticeboards in the various Schools, the foyer of the Wallace Wurth Building, the Clinical Schools in our Teaching Hospitals, as well as the official noticeboards of the University.

Finally, may I wish you every success in the course and hope that you will enjoy your time with us. If you have any difficulties or any unanswered questions I hope that you will never hesitate to contact the staff of the Faculty Administration Office and other members of the Faculty for assistance.

W. E. Glover
Dean
Faculty of Medicine
**Session Dates**

The academic year is divided into two sessions, each containing 14 weeks for teaching. There is a recess of approximately six weeks between the two sessions and there are short recesses of one week within each of the sessions.

**All Faculties (other than Medicine)**

Session 1 commences on the Monday nearest 1 March.

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<th>1994</th>
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<td><strong>Session 1</strong></td>
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<td>28 February to 31 March</td>
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<td>11 April to 10 June</td>
<td>24 April to 9 June</td>
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<td>1 April to 10 April</td>
<td>14 April to 23 April</td>
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<td>Study Period:</td>
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<td>11 June to 16 June</td>
<td>10 June to 15 June</td>
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<td>Examinations:</td>
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<td>17 June to 5 July</td>
<td>16 June 4 July</td>
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<td>Midyear Recess:</td>
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<td>6 July to 24 July</td>
<td>5 July to 23 July</td>
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<td><strong>Session 2</strong></td>
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<td>25 July to 23 September</td>
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**Faculty of Medicine**

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<td><strong>Fourth Year</strong></td>
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<td><strong>Term 1</strong></td>
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<tr>
<td>Campus Program 1 (2 weeks)</td>
<td>Campus Program 1 (2 weeks)</td>
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<tr>
<td>10 January to 21 January</td>
<td>9 January to 20 January</td>
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<tr>
<td>Hospital Program (6 weeks)</td>
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<td>24 January to 6 March</td>
<td>23 January to 5 March</td>
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<td><strong>Term 2</strong></td>
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<td>Hospital Program (6 weeks)</td>
<td>Hospital Program (6 weeks)</td>
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<td>7 March to 17 April</td>
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<tr>
<td>Campus Program 2 (1 week)</td>
<td>Campus Program 2 (1 week)</td>
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<td>18 April to 22 April</td>
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<td><strong>Recess (1 week)</strong></td>
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<td>25 April to 1 May</td>
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Term 3 (6 weeks)  
Hospital Program  
2 May to 12 June

Term 4  
Campus Program 3 (2 weeks)  
14 June to 27 June  
Hospital Program (6 weeks)  
28 June to 7 August  
Recess (1 week)  
8 August to 14 August

Term 5 (6 weeks)  
Hospital Program  
15 August to 25 September

Term 6 (6 weeks)  
Hospital Program  
26 September to 6 November

Fifth Year

Term 1 (9 weeks)  
17 January to 20 March

Term 2 (9 weeks)  
28 March to 29 May

Term 3 (9 weeks)  
6 June to 7 August

Term 4 (9 weeks)  
15 August to 16 October

Sixth Year

Term 1 (8 weeks)  
Elective - variable dates

Term 2  
Campus Program 1 (1 week)  
7 March to 11 March  
Hospital Program (6 weeks)  
14 March to 24 April  
Recess (1 week)  
25 April to 1 May

Term 3 (6 weeks)  
2 May to 12 June

Term 4  
Campus Program 2 (2 weeks)  
14 June to 27 June  
Hospital Program (6 weeks)  
28 June to 7 August  
Recess (1 week)  
8 August to 14 August

Term 5 (6 weeks)  
15 August to 25 September

Term 6 (6 weeks)  
26 September to 6 November
Comprises Schools of Anatomy, Community Medicine, Medical Education, Obstetrics and Gynaecology, Paediatrics, Pathology, Physiology and Pharmacology, Psychiatry, and Clinical Schools at the Prince Henry and Prince of Wales Hospitals, St Vincent's Hospital, St George Hospital, and the South Western Sydney Area Health Service.

Dean
Professor Walter Ernest Glover

Presiding Member
Professor Ian William Webster

Associate Dean (Research)
Professor Douglas Ian McCloskey

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Administrative Officers
Gordon Lester Rees
Pamela Gal O’Hara, BA N.E.

Administrative Assistants
Hilary Rena Cox
Moya Patricia Pedemont

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

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PhD Syd.

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

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+Philip David Jones, MB BS Syd., PhD A.N.U., FRACP
+Andrew Russell Lloyd, MB BS Syd., MD UNSW, FRACP
+Hugh Patrick McNeil, BMedSc MB BS Tas., PhD UNSW, FRACP
+Dwain Alan Owensby, BSc Yale, PhD ANU, MD Miami, FRACP
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+Monica Anne Rossleigh, MB BS UNSW, FRACP
+Maurice Charles Rozenberg, MD BS Syd., FRACP, FRCPA
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Jan Wilson

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Vacant

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

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+Peter Ralph Isert, MB BS UNSW, FFARCS
+Edward Loughman, MB BS UNSW, FFARACS
+Margrid Brigitte Schindler, MB BS UNSW
+Yahya Shehabi, MB BS Jordan, FFARACS

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Professor J. A. Whitworh

Administrative Assistant
Vacant

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+Ian James Cook, MB BS MD Syd., FRACP
+Randall James Faulk, MB BS, PhD Adel., FRACP
+Siu Lam Kwan, MB BS H.K., FRACP, FRCPA
+Louis Eugene McGuigan, MB BS MD UNSW, FRACP
+Donald Sidney Pryor, MD Syd., FRACP
+Allan David Sturgess, MB BS Qld., PhD Melb., FRACP, FRCPA
Alessandro Stefano Zagami, MB BS, MD UNSW, FRACP

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+David John Gorman, BSc MB BS Syd., FRACP
John James Kelly, MB BS UNSW, FRACP
+Richard James Quinn, MB BS UNSW, FRACP, DDU
+David Ronald Ramsay, MB BS Syd., FRACP

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Professor
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+Derek Glenn, MB BS Syd., FRACP
+Ian Stafford Lovett, MB BS Syd., MRCP, FRACR
+Ronald John Manning, MB BS, BMedSc UNSW, FCEM
John Lindsay McCall, MB BS Otago, FRACS
William Beattie Ross, BSc, MBChB Edin., FRCSEd, ChM Edin., FRACS

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Lecturers
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+Theresa Jacques, MB BS Monash, FFARCS
+Richard Walter Morris, MB BS Syd., FFARCS
+John Robert Raftos, MB BS(Hons) Syd., FCEM

Clinical School - St Vincent’s Hospital

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

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+Richard Osborne Day, MB BS Syd., MD UNSW, FRACP
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+Robert Graham, MB BS MD UNSW, FRACP, FACP
+Leslie Lazarus, AO MB BS Syd., FRACP, FAACB
Michael Francis O'Rourke, MD BS, FAACB

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+Robert Lyndsay Sutherland, MAgSc
+John Shine, BSc PhD
+Michael Francis O'Rourke, MD BS, FAACB

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+Nicholas Antony Pocock, MB BS Syd., MD UNSW, FRACP
+William Arthur Sewell, MB BS BSc Syd., PhD Melb., FRCPA
+George Albert Smythe, BSc PhD UNSW
+Geoffrey Philip Symonds, BSc MSc Syd., PhD UNSW

**Lecturers**
+Santhirasegaram Balabrasubramaniam, MSc PhD Lond., FRCS
+Ronald Michael Malor, BSc PhD Syd.
+Sam Thilakan Balabrasubramaniam, MB BS Syd., FRACP
+Paul Thomas Preisz, MB BS Syd., FACEM

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**Department of Surgery**

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

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

**Senior Lecturers**
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Alan Carrick Meek, MB ChB MD Glas., FRCS

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

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**Department of Anaesthetics and Intensive Care**

**Associate Professors**
+Gordon Alfred Harrison, MB BS Syd., MHPed UNSW, FFRAC, FFARACS

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+Ronald Ernest Benson, MB BS Syd., FRACP, FFARACS
+Brian Francis Horan, MB BS Syd., FFARCS, FFARACS

**Lecturers**
+Neil Thomas Bradburn, MB BS Syd., FFARACS
+Judith Mary Branch, MB BS Syd., FFARCS
+Gregory Francis O’Sullivan, MB BS UNSW, FFARCS

---

**Clinical School - South Western Sydney Area Health Service**

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Dr M. R. Vowels
Ms E Lobb

Garvan Institute of Medical Research - St Vincent's Hospital

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

Professor and Head, Metabolic Research Division
Donald John Chisholm, MB BS Syd., FRACP

Professor and Head, Bone and Mineral Research Division
John Allan Eisman, BSc(Med) Syd., MB BS Syd., PhD Melb., FRACP

Professor and Head, Neurobiology Division
John Shine, BSc PhD A.N.U.

Professor and Head, Cancer Biology Division
Robert Lyndsay Sutherland, MAgSc Cant., PhD A.N.U.

Associate Professor and Head, Diabetes Group
Edward William Kraegen, BSc PhD UNSW, MACPSM

Associate Professor and Head, Clinical Investigation Group
Ken Kian Yong Ho, MB BS Syd., MD UNSW, FRACP

Senior Principal Research Fellow
Peter Philip Gray, BSc Syd., PhD UNSW, FIEAust, MAmeriChe

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Mr P.J. Wills (Chair)
Professor J. Niland (Deputy Chair)
Mr J. H. Gardener (Treasurer)
Professor W. E. Glover
Professor J. McLeod
Professor J. Shine
Dr J. Loy
Dr R. B. Spencer
Dr R. J. J. Stewart
Sister M. Cunningham, RSC
Sister P. Ryan, RSC
Mr R. S. Adler
Mr D. R. Magarey
Mr B. Dwyer

Prince of Wales Medical Research Institute - Prince of Wales Hospital

Professor and Director
Douglas Ian McCloskey, BSc(Med) MB BS Syd., DPhil Oxf., DSc UNSW, FRACP, FTS, FAA

Professor and Director of Clinical Research
David James Burke, MD DSc UNSW, FRACP

Professor
Elspeth Mary McLachlan, BSc PhD Syd.

Associate Professors
Simon Charles Gandevia, BSc(Med) MD DSc PhD UNSW
Erica Kathleen Potter, BSc Syd., PhD UNSW

Lecturer
Glenda Margaret Halliday, BSc PhD UNSW

Board
Mr W. Penfold (Chair)
Mr J. Everitt
Professor W. E. Glover,
Professor D. I. McCloskey
Professor A. Pettigrew
Mr W. Lawrence
Mr B. Shepherd
Mr R. Turner
Mr J. Walton
Skin and Cancer Foundation

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

Associate Professor
Stevan Kossard, BSc MB BS PhD Syd., FACD

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

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

Information Key

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

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

Prefixes

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

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Organizational Unit</th>
<th>Faculty/Board</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANAT</td>
<td>School of Anatomy</td>
<td>Medicine</td>
</tr>
<tr>
<td>ARTS</td>
<td>Faculty of Arts &amp; Social Sciences</td>
<td>Biological &amp; Behavioural Sciences</td>
</tr>
<tr>
<td>BIOC</td>
<td>School of Biochemistry</td>
<td>Biological &amp; Behavioural Sciences</td>
</tr>
<tr>
<td>BIOS</td>
<td>School of Biological Science</td>
<td>Biological &amp; Behavioural Sciences</td>
</tr>
<tr>
<td>BSSM</td>
<td>Board of Studies in Science &amp; Mathematics</td>
<td></td>
</tr>
<tr>
<td>CHEM</td>
<td>School of Chemistry</td>
<td>Science</td>
</tr>
<tr>
<td>CMED</td>
<td>School of Community Medicine</td>
<td>Medicine</td>
</tr>
<tr>
<td>HEAL</td>
<td>School of Health Services Management</td>
<td>Professional Studies</td>
</tr>
<tr>
<td>MATH</td>
<td>School of Mathematics</td>
<td>Science</td>
</tr>
<tr>
<td>MDSG</td>
<td>Medicine/Surgery Clinical Studies</td>
<td>Medicine</td>
</tr>
<tr>
<td>Prefix</td>
<td>Organizational Unit</td>
<td>Faculty/Board</td>
</tr>
<tr>
<td>--------</td>
<td>---------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>MEED</td>
<td>School of Medical Education</td>
<td>Medicine</td>
</tr>
<tr>
<td>MFAC</td>
<td>Faculty of Medicine</td>
<td>Medical</td>
</tr>
<tr>
<td>MICR</td>
<td>School of Microbiology &amp; Immunology</td>
<td>Medical Sciences</td>
</tr>
<tr>
<td>OBST</td>
<td>School of Obstetrics &amp; Gynaecology</td>
<td>Medicine</td>
</tr>
<tr>
<td>PAED</td>
<td>School of Paediatrics</td>
<td>Medical</td>
</tr>
<tr>
<td>PATH</td>
<td>School of Pathology</td>
<td>Medical</td>
</tr>
<tr>
<td>PHPH</td>
<td>School of Physiology &amp; Pharmacology</td>
<td>Medicine</td>
</tr>
<tr>
<td>PHYS</td>
<td>School of Physics</td>
<td>Science</td>
</tr>
<tr>
<td>PSCY</td>
<td>School of Psychiatry</td>
<td>Medicine</td>
</tr>
</tbody>
</table>

**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.
Faculty Information

Some People Who Can Help You

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

Gordon Rees, Administrative Officer, Faculty of Medicine. Telephone 697 2459.
Pamela O'Hara, Administrative Officer, Faculty of Medicine, Telephone 697 2457
Moya Pedemont, Administrative Assistant, Faculty of Medicine, Telephone 697 2452.
Barbara Bohdanowicz, Executive Officer, Faculty of Medicine, Telephone 697 2450.

The Faculty

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

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

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

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

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

Committee Structure

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

Details of fees have been provided in the Guide to Students 1994 but in Medicine there are additional costs.

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

$ approx.

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

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

Attendance at and Residence in Hospitals

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

There are times in the later years of the course when students are either required or may elect to live in the hospitals for periods ranging from one night to a term. Accommodation charges at the prevailing rate must be paid directly to the hospitals for all periods of residence.

General Education Requirement

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

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

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

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

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

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

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

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

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

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

Will these abilities be used, for example:
- in a creative and innovative way?
- to widen the circle of human participation in the benefits they bring?
to break down the barriers of exclusion and discrimination?
• to enhance the prospects for survival of the human species?
• to enhance the capacity of the planet earth to sustain life?

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

Students With Disabilities
The University of New South Wales has a policy of equal opportunity in education and seeks wherever possible to ensure maximum participation of students with disabilities. The University offers a range of assistance: examination support; specialized equipment; educational support; parking provisions; library assistance.

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

It is advisable to make contact with the Adviser to Students with Disabilities prior to, or immediately following enrolment, to discuss your support needs. The Adviser can be contacted on 697-5418 or at Student Services, Eastwing, Quadrangle Building.

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

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

Schools, Departments and Committees of the Faculty of Medicine closely monitor course content; curriculum design; teaching and assessment, and printed and audiovisual material to ensure that they are not discriminatory or offensive, and to ensure the provision of equality of educational opportunity to all students.

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

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

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

Teaching Campuses

The Eastern Sydney Area Health Service

Principal Teaching Hospitals

Prince Henry/Prince of Wales
Prince of Wales Children's
Royal South Sydney Hospitals Group
The Hospitals Group is the largest teaching hospital facility in New South Wales and is comprised of 1,094 available beds on four sites. The Group is administered by one executive located at Prince of Wales Hospital. All medical specialties other than obstetrics are provided at a tertiary level by the Hospital Group. The Group is closely linked with the Community and Health Services Programs of the Eastern Sydney Area Health Service.

The senior medical staff number over 350 and junior medical staff 342 (including 120 on secondment to other centres).

The Hospital Group has a history dating back to the late 19th century and has been an integral part of medical education at the University of New South Wales since 1959. Limited student accommodation is available and other facilities include tennis courts, swimming pools and common rooms. Both Prince Henry and Prince of Wales Hospitals have a medical library.

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

This hospital site comprising 437 available beds includes the following clinical services: Lithotripsy, Spinal Injuries, AIDS Special Care Unit, Cardiology, Cardiothoracic Surgery, Urology, Renal Unit/Transplant, Vascular, Gastro surgery, Psychiatry, Neuropsychiatry, Psychogeriatrics, General Medicine and Renal Dialysis.

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

This hospital site consists of 387 available beds and the following services are included: Geriatrics, Orthopaedics, Ophthalmology, ENT, Plastic and Microsurgery, Respiratory Medicine, Endocrinology, Oncology, Radiotherapy, Haematology, Gastroenterology, Psychiatry, General Surgery and Neurological and Neurosurgical services combined into an Institute of Neurosciences.
The Prince of Wales Children's Hospital
High Street, Randwick 2031
Telephone 399 4450 Facsimile 399 2136
This is a paediatric tertiary referral hospital serving the whole of the state, one of two such Children's Hospitals in New South Wales. It comprises 163 available beds located at The Randwick campus, beds also at the Prince Henry Hospital. It has close links through senior paediatric and registrar staff with other teaching and associated hospitals such as the Royal Hospital for Women, Liverpool Hospital, Wollongong Hospital etc. It provides a complete range of paediatric services and has strong links with complimentary adult services of the Prince Henry and Prince of Wales Hospital Group.
There is a care-by-parent unit providing accommodation for parents and siblings and a Ronald McDonald House provides additional care by parent accommodation.

Royal South Sydney Hospital
Joynton Avenue, Zetland 2017
Telephone 697 8200, Facsimile 662 2219 and 697 8105
The Royal South Sydney Hospital comprising 107 available beds is a tertiary referral hospital for rehabilitation, with a range of services including neurological and orthopaedic, comprehensive prosthetic management of major limb loss, specialized seating service and analysis. Associated with rehabilitation is an occupational health unit which carries out risk assessments, training and general occupational health work.

The St Vincent's Hospital
Victoria Street, Darlington 2010
Telephone 339 1111, Facsimile 332 4142
St Vincent's Hospital is the principal ecclesiastical hospital in New South Wales and is under the trusteeship of the Sisters of Charity. It was founded in 1857 and moved to the present site in 1870.
Students of medicine have attended the Hospital since 1891 and from 1923 to 1969 the Hospital was a Clinical School for the University of Sydney. Since then it has been a Principal Teaching Hospital of The University of New South Wales. The Clinical School and a student hostel were built in 1964. At present the Clinical School contains teaching facilities, audio-visual equipment, common rooms, library and pathology museum.
The St Vincent's Hospital has 450 beds on a single campus. It is an acute general Hospital with highly developed specialist units in most areas of medicine and surgery. The Hospital provides referral services for New South Wales and Australia and services for the local community. Speciality services at the Hospital include cardiac transplantation, bone marrow transplantation, a Cancer Centre which provides an integrated approach to the management of malignancy and a comprehensive AIDS service. Sophisticated diagnostic departments which include radiology, all branches of pathology and nuclear medicine support the clinicians of the Hospital. Extensive primary and secondary services are also provided to meet the needs of the local community and these include medical, surgical, geriatric, 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 13 Chairs at the Hospital which include medicine, surgery, cardiology, endocrinology, immunology, psychiatry, clinical pharmacology and chemical pathology. The visiting medical staff numbers 100; there are 70 staff specialists and 150 resident medical officers.
St. Vincent's Hospital is part of the integrated Campus of the Sisters of Charity which comprises St. Vincent's Private Hospital (250 beds), Sacred Heart Hospice (100 beds), the Garvan Institute of Medical Research and St. Vincent's Clinic.

The Royal Hospital for Women
Oxford Street, Paddington 2021
Telephone 339 4111
The Royal Hospital for Women is the University's Teaching Hospital in obstetrics and gynaecology. It is a specialist Hospital for obstetrics and gynaecology and includes a department of neonatal paediatrics. The visiting medical staff numbers 91, and the salaried and resident medical staff 20.
The Hospital, of 204 available beds, is managed by the Eastern Sydney Area Health Service. Prior to July 1992, the Hospital functioned under the auspices of the Benevolent Society of NSW, which established Australia's first lying-in hospital in central Sydney in 1866. The first medical undergraduate students came to this Hospital in 1888 and the present Paddington site was occupied in 1901.
The first baby clinic, the forerunner of today's Baby Health Centres, was established in 1906. The State's first Antenatal Clinic was started in 1912 and this was the third such clinic in the world. In 1931 the first Archeim Zondeck Pregnancy Test was performed in Australia at the Royal Hospital for Women. In 1948 the Royal established Australia's first Cancer Detection Clinic and in 1984 the first Chorionic Villus sampling was performed at the Hospital.
Currently the Department of Ultrasound at this Hospital has an international reputation in research and development of this equipment for use in obstetrics.
The Gynaecological Oncology Centre has a world wide reputation for its standing in work on ovarian cancer and gynaecological oncology.
The redevelopment plan recently announced by the NSW Department of Health for the Eastern Area Health Service proposed the relocation of the Royal Hospital for Women to the site adjacent to the Prince of Wales Hospital.

Associated Teaching Hospitals

Sydney Hospital
Macquarie Street, Sydney 2000
Telephone 228 2111, Facsimile 233 1360
Sydney Hospital, the first hospital in Australia, was established at Dawes Point shortly after the arrival of the First Fleet in 1788. It was transferred to the Sydney Hospital site in Macquarie Street in 1811 when Governor Macquarie built the "Rum" Hospital. The first Nurses Training School in the Florence Nightingale tradition was established at the Hospital in 1868.
Sydney Hospital (incorporating Sydney Eye Hospital) has 117 beds and a 24 hour Accident and Emergency service. It provides inpatient and outpatient services in general medicine, general surgery, orthopaedics, ENT, hand surgery, and ophthalmology. There are 70 visiting medical staff, 7 staff specialists and 45 resident medical officers (including Sydney Eye Hospital).
Located on the Sydney Hospital site is the Sydney Sexual Health Centre and the Occupational Health and Safety Centre. The Hospital Complex also includes the Sydney Eye Hospital, and the Kirketon Road Centre in Kings Cross.

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

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

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

Sacred Heart Hospice
170 Darlington Road, Darlington 2010
Telephone 361 9444

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

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

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

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The Southern Sydney Area Health Service

Principal Teaching Hospital

The St George Hospital
Gray Street, Kogarah 2217
Telephone 350 1111, Facsimile 350 3999

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

The Hospital has recently undergone major redevelopment. Current bed capacity is 490 and it is planned, with further redevelopment, to provide around 650 beds. A 200 bed private hospital is also being constructed on an adjacent site. The Hospital covers all major specialties. A Cancer Care Centre including radiotherapy was opened in 1993. Radiotherapy services commenced on 12 July 1993.

The Hospital is staffed by 88 Visiting Medical staff, 58 Staff Specialists and 177 Resident Medical staff. The Clinical School includes teaching facilities, audiovisual equipment and library. Accommodation is available for students.

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Associated Teaching Hospitals

The Canterbury Hospital
Canterbury Road, Campsie 2194
Telephone 789 9111, Facsimile 789 3450

The Canterbury Hospital, which was founded in 1928, has been an Associated Teaching Hospital of the University since 24 July 1963. It is a general medical, surgical and obstetric hospital of 156 approved beds and has a very busy accident and emergency department with over 24,000 occasions of service every year. The Hospital also has a 25 bed aged and rehabilitation unit, and a 10 bed Day Procedure Unit.

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

Visiting medical staff totals 75, affiliates in obstetrics 8, salaried 6 and resident medical staff 30.

Sutherland Hospital Caringbah
Kingsway, Caringbah 2229
Telephone 540 7111, Facsimile 540 7197

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

The Hospital has 342 beds. There is also a well equipped library.

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

The Hospital is staffed by 75 visiting medical staff, 16 staff specialists and 49 resident medical staff.

Calvary Hospital Kogarah Inc
91-101 Rocky Point Road (Cnr Fitzgerald Avenue), Kogarah 2217
Telephone 587 8333

Calvary Hospital Kogarah Inc is a Third Schedule Public Hospital conducted by the Sisters of the Little Company of Mary. The Hospital was opened in 1966 and provides multidisciplinary palliative care services for 78 inpatients with another 10 beds for day-only admissions in the Day Hospital. Sixteen of the inpatient beds are used for continuing care patients and the hospital is working towards a slow-stream rehabilitation facility. In addition to the main focus of palliative care, outpatient care clinics are being conducted at St. George, Canterbury and Sutherland Hospitals. There is a community palliative care team offering holistic, family-oriented care to people with terminal illnesses within the Southern Sydney Area Health Service who choose to live at home, and an outpatient pain clinic is available at Calvary for these and other patients.

The hospital staff are involved in teaching palliative care to undergraduate medical students and postgraduate nursing students. Training courses for volunteers in bereavement counselling and other aspects of palliative care are also offered.
The South Western Sydney Area Health Service

Telephone 821 5700, Facsimile 601 8501

The South Western Sydney Area Health Service became a Principal Teaching Campus of The University of New South Wales in early 1989 and Liverpool Hospital is being upgraded to provide district, teaching and referral services. To date the University has a presence in the fields of adolescent and mental health, medicine, surgery, obstetrics, pathology and microbiology, community paediatrics, anaesthesiology and intensive care and community medicine-general practice, public health, health promotion, rehabilitation and geriatrics and drug and alcohol services.

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

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

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

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

Principal Teaching Hospital

Liverpool Health Service
Liverpool Hospital and Liverpool Community Health Service
Elizabeth Street, Liverpool 2170
Telephone 600 0555, Facsimile 600 9382

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

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

A major building program is under way which will see the hospital redeveloped to 692 beds by 1997. A new Community Health Centre has been built at Hoxton Park.

Associated Teaching Hospitals

The Bankstown-Lidcombe Health Service

Bankstown-Lidcombe Hospital is a 542-bed hospital located on two campuses. The Hospital serves as a teaching hospital for the Universities of Sydney and New South Wales including medical and surgical sub-specialties, psychiatry, geriatrics and dermatology. The Hospital provides medical and surgical services for a catchment area of approximately 180,000.

There is a clear role delineation between both campuses with particular specialties concentrated on one or the other site. Surgery is predominantly on the Bankstown site while most medical sub-specialties are on the Lidcombe site.

Accredited training includes FRACP, FRACS, FMP, DRCOG and PGMC. Both campuses currently hold a full 3-year accreditation with the PGMC. Both campuses employ in excess of 200 salaried and visiting medical staff and 89 resident and career medical officers.

Bankstown Campus and Bankstown-Lidcombe Community Health Service

Eldridge Road, Bankstown 2200
Telephone 790 0444

The Hospital on the Bankstown Campus was officially opened in 1957. The Campus has a total of 280 beds which includes a 9-bed intensive care unit, 6-bed coronary care unit, 40-bed obstetrics unit, 21-bed paediatric unit with a neonatal paediatric intensive care nursery and a modern 30-bed psychiatric unit as well as one of the busiest casualty units in Sydney.

Planning is underway for the building of a new 454-bed general district hospital on the Bankstown site which, when complete, will incorporate the present Bankstown and Lidcombe Hospitals.

Lidcombe Campus

Joseph Street, Lidcombe 2141
Telephone 646 8555, Facsimile 646 5978

The Lidcombe Campus houses one of the oldest hospitals in Sydney, having commenced in 1893. The main hospital complex was opened in 2 stages in 1973 and 1977. The Campus has a total of 278 beds which include 47 surgical beds providing mainly Day-Only surgery as well as services in ophthalmology and urology. The remaining beds are allocated to general medicine and medical sub-specialities including nephrology, cardiology (with 4-bed telemetry unit), neurology, respiratory medicine, haematology, geriatrics (23 beds), geriatric rehabilitation (56 beds) psychogeriatrics (20 beds) and a head injuries unit (17 beds).

The Campbelltown Health Service

Campbelltown Hospital and Campbelltown Community Health Service
Therry Road, Campbelltown 2560
Telephone 046 25 9222, Facsimile 046 29 1338
Campbelltown Hospital is a general, maternity, and psychiatric hospital situated in the City of Campbelltown in the South Western suburbs of Sydney.

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

Campbelltown Hospital has 213 beds providing general medical and surgical, obstetrics and gynaecology, paediatric, mental health and anaesthetic services. This includes an 8-bed intensive care/coronary care unit, a very busy 30-bed paediatric unit with a 15-bed Level II special care nursery. A very busy emergency department operates 24 hours per day and is staffed by a specialist Director and Career Medical Officers. Day Procedure facilities are provided by a very active free-standing Day Surgery Unit. The Unit has two operating theatres and one procedure room and currently performs approximately 4500 procedures a year. A comprehensive orthopaedic service was commenced at Campbelltown in February, 1993 and is continuing to develop in workload.

As part of the Cambelltown Health Service, the Hospital is involved in the coordination and development of community health services in Campbelltown.

The Fairfield Health Service

Fairfield Hospital and Fairfield Community Health Service
Cnr Polding Street and Prairievale Road, Wetherill Park
2164
Telephone 609 8111, Facsimile 609 8240

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

The Fairfield Hospital opened in November 1988 and provides, with the Community Health Service, health services for the Fairfield local government area community. In addition, the Hospital has a Level II Special Care Nursery, a 24-hour Accident and Emergency Service, a 10-bed special ICU and Trauma Service and has in place an Early Discharge Program for well mums and babies.

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

The Fairfield Community Health Centre, previously located in premises in Spencer Street, Fairfield, moved to new premises in Mitchel Street, Fairfield (Old Fairfield Hospital site) in March, 1993.

The Illawarra Area Health Service

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

The Illawarra Area Health Service covers an area immediately to the south of the Sydney Metropolitan Area, and comprises the Local Government Areas of Wollongong, Shellharbour, Kiama and Shoalhaven. The estimated total population of the Illawarra is 304,309 (Australian Bureau of Statistics 1991) which comprises 5.31% of the total New South Wales population.

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

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

Associated Teaching Hospitals

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

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

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

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

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

Kiama District Hospital
The Hospital provides community clinic and Day Care Services.
Shoalhaven District Memorial Hospital
Shoalhaven Hospital has 104 beds. It is the major hospital for the Shoalhaven, providing accident and emergency, primary care, obstetrics, paediatrics, medical and surgical services. Redevelopment to provide new operating theatre, recovery and CSSD facilities is currently in progress.

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

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

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

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

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

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

Professional staff are available at the Reader Assistance Unit on Level 2 to provide reference services and to assist in the use of the on-line catalogue. Instructional classes in the use of the library and in specific subject material can be arranged through the Reader Assistance Unit.

Serials in the Biomedical Library are now shelved in alphabetical order by title and carry the prefix 'MB'. Details about Biomedical Library books, serials and audiovisual material can be found in the Library's on-line Catalogue.

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

Biomedical Librarian: Monica Davis

The University of New South Wales Medical Society

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

Among the social functions held annually are the first year welcome weekend, harbour cruises, barbecues, hospital parties, the 'Med Ball' and the Anzac Day sports day.

A newsletter Idioglossia and an annual magazine are produced to which students and staff are encouraged to submit written articles.

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

The Medsoc Shop is an important service provided by the Society. Textbooks, white coats and diagnostic instruments may be bought cheaply. A Medsoc shop joining fee is payable.

All students are encouraged to participate in the Society's activities and to attend the Medsoc meetings which are held in the Bookshop monthly on the first Tuesday of each month at 5.30 p.m. Enquiries should be addressed to the Secretary of the Medical Society, c/- Medsoc Bookshop.

With the redevelopment of the Prince of Wales Hospital, the Medsoc Shop is to be relocated in 1994. Details of location, opening hours, etc. will be posted in the foyer of the Wallace Wurth Building.
Selection into the Faculty of Medicine

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

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

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

Overseas Students

Applicants from overseas may only compete for entry to the medical course as either fee paying students or as holders of a scholarship awarded by the Australian Government. Enquiries regarding admission of overseas students should be directed either to the Director of International Programs or the Executive Officer, Faculty of Medicine, both at The University of New South Wales, Kensington NSW 2052, Australia. Enquiries regarding Australian Government scholarships should be directed to the local Australian Diplomatic Mission.

Prerequisite Requirements

The most suitable Higher School Certificate studies (or equivalent) for those who wish to enter the Faculty would include 2 or more units of Mathematics, English and Chemistry. (The 2 Unit Mathematics subject, Mathematics in Society, is not suitable.) To be eligible for selection into the Medicine Faculty, students must first obtain the required course prerequisite score in the HSC (or equivalent) Mathematics. For entry in 1994 there are also first year subject prerequisites of HSC (or equivalent) English and Chemistry. The following prerequisite requirements were current at the time of publication.

Course prerequisites for 1994
HSC Mathematics
2U (60-100) or,
3U (1-50) or,
4U (1-100)

Subject prerequisites for 1994
HSC English
Contemporary English (75-100) or,
2U (General) (65-100) or,
2U (60-100) or,
3U (25-50)

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

Please note that as of 1995 the English subject prerequisite will become a course prerequisite and as of 1996 the Science subject prerequisite will become a course prerequisite.

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

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

It should be noted that it is assumed that students have an adequate command of English language.
communication skills upon enrolment. Those students who feel they may lack skills in this area should consult with their lecturers or tutors, or staff of the Faculty Office, who can arrange special English language support classes. Students who do not have adequate English language communication skills may not be permitted to progress in the course.

Admission of Aboriginal Students

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

Admission of Disadvantaged Students (ACCESS Scheme)

The Faculty may admit, within quota, a number of students of high academic potential whose education has been disadvantaged, over a two year period by circumstances beyond their control. Applicants must matriculate to the University and meet all Faculty course and subject prerequisites. Further information may be obtained from the Access Scheme Co-ordinator at the University on (02) 697 5434.

Admission of Refugee Medical Practitioners

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

Application Procedures

Applications should be directed to the Universities Admissions Centre, Locked Bag 500, Lidcombe, 2141, Telephone 330 7200. The closing date for application is generally 30 September of each year or up to the end of October on payment of a late fee.

3801 Medicine Course
BSc(Med) MB BS

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

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

On completion of the 3rd year of the six year course, students also qualify for the degree of Bachelor of Science (Medicine). Students would not ordinarily be awarded the BSc(Med) until the completion of the requirements for the award of the MB BS. However, students who have completed requirements for the award of the BSc(Med) and are leaving the Medicine Course 3801 (BSc(Med)MB BS) (either through their own decision to withdraw or upon exclusion by the University) are eligible to be awarded the BSc(Med) degree at that stage.

Students who have achieved a high standard in their studies may undertake an additional one year program of supervised research leading to the award of the BSc (Med) with Honours. [For details see the course description for 3831].

Objectives of the Medicine Course

The objectives of the Medicine Course are:

1. To produce a graduate with a knowledge of medical and behavioural sciences sufficient to understand the scientific basis of medicine and to go forward with medicine as it develops further.
2. To provide a graduate with the flexibility of outlook and training necessary to progress to any field of endeavour in medicine or related disciplines.
3. To provide education in clinical methods and patient care in the main branches of medicine and surgery so that the graduate could undertake patient care under supervision at the level of an intern.
4. To help the graduate understand professional and ethical principles and to be at all times mindful of the individual’s obligations to patients, colleagues and the community.

Supplementary Assessment

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

Subject examiners may, in the time between the sitting of an assessment and the meeting of the Assessment Committee, require students to present themselves for further assessment to resolve any doubts as to a student’s performance. After the Assessment Committee meets further assessment may be given to allow the Assessment Committee to resolve a doubt. (In Years 1, 2, 3, 4, and 6 such assessment is usually undertaken in the following January and February.) Such further assessment may be given when students, through illness or some other acceptable circumstances, have been prevented from taking one or more of the assessments or have been disadvantaged during the assessment.
In Year 5, subject examiners may, in the time between the sitting of term assessments and the meeting of the Assessment Committee (normally Thursday of the term recess), require students to undertake further assessment. A student who fails one term may be required to repeat that term in a six week remedial period following Term 5:4. Students are warned that they may be required to undertake such additional assessment and should take this into account if making travel arrangements for the period after the end of Term 5:4.

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

Student Photographs and Identification Badges

In Year 1 of this course, each student is required to be photographed during the first session. These photographs are required for school and Faculty purposes and are also used to produce identification badges which must be worn in the hospitals.

Immunization for Medical Students

During the course, the Faculty requires that all medical students be immunised against tuberculosis, hepatitis B and rubella. The Faculty, with the assistance of the Teaching Hospitals, arranges for students to have both the tuberculin test and the hepatitis B test. Students are required to organize with their General Practitioner, prior to the completion of fourth year, immunisation against rubella. In addition to the tuberculin, hepatitis B and rubella tests, the Faculty strongly recommends immunisation against measles and mumps. Although medical students are not considered to be at a greater risk than any other member of the community, it is considered an important health care measure that they obtain immunisation against these illnesses. If you have any reason to suspect that you are at risk of having, or have, an immune deficiency, you should seek the advice of an immunologist before receiving a live vaccine.

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

Course Details

Year 1

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

<table>
<thead>
<tr>
<th>Subject Description</th>
<th>HPW</th>
<th>S1</th>
<th>S2</th>
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<tr>
<td>1. ANAT1006 Anatomy 1</td>
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<td>2. BIOC1319 Biochemistry for Medical Students</td>
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<tr>
<td>3. MFAC1001 Introductory Clinical and Behavioural Studies</td>
<td>3</td>
<td>5</td>
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<tr>
<td>4. PHPH1004 Biology for Medical Students</td>
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<td>5. General Education electives</td>
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Assessment

Biology is only taught in Session 1 with a final assessment at the end of that session. The other three subjects extend over both sessions and incorporate a final assessment at the end of Session 2. Assessments also take place at the end of Session 1 but do not constitute a barrier to progression to Session 2.

Students who do particularly poorly in the mid-year assessments will be interviewed by the Dean or Executive Officer and an appropriate member of the academic staff before proceeding. Such students may discontinue without failure at that time.

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

Rules of Progression

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

Students repeating the year are required to enrol in all subjects in Year 1, other than any General Education subject(s) passed.

Allocation to Hospitals in Year 2

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

Year 1 Subject Descriptions

For further information regarding these subjects contact the subject authorities.

ANAT1006
Anatomy 1

Staff Contact: Dr D. Vu

S1 HPW5 S2 HPW7

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

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

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

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

BIOC1319
Biochemistry for Medical Students
Staff Contact: Dr V. Murray
S1 HPW6 S2 HPW6

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


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: A/Prof P. McNeill
S1 HPW3 S2 HPW5

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

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

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

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

PHPH1004
Biology for Medical Students
Staff Contact: Dr G. Courtice
S1 HPW4

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

An introductory course consisting mainly of lectures which will be complemented by practical classes and excursions. Topics include: basic cell biology; introductory genetics; invertebrates; parasites; ecology, evolution; comparative anatomy and physiology.

Assessment: Assessment is based on an examination at the end of Session 1 and continuous assessment during the session.
Year 2

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

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<td>2. BI0C2329</td>
<td>Medical Biochemistry</td>
<td>S2 7</td>
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<td>and Genetics</td>
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<td>3. MDSG2001</td>
<td>Clinical Studies 2</td>
<td>S1 4.5</td>
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<td>4. PHPH2018</td>
<td>Medical Physiology 1</td>
<td>S2 4.5</td>
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<tr>
<td>5. PSCY2101</td>
<td>Human Behaviour</td>
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</table>

Assessment

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

Rules of Progression

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

Year 2 Subject Descriptions

For further information regarding these subjects contact the subject authorities.

ANAT2007
Anatomy 2
Staff Contact: Dr E. Tancred
S1 HPW 7 S2 HPW 7

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 organized according to the organ systems and includes the cardiovascular, respiratory, alimentary, urinary, genital, endocrine, lymphatic and nervous systems. In all instances the clinical relevance of the anatomical structures is emphasised. The course consists of four subcourses, each having separate lectures and tutorials: Gross Anatomy, Histology, Embryology, and Neuroanatomy. Gross Anatomy and Histology are taught in

Session 1, Neuroanatomy and Embryology are in Session 2. Neuroanatomy gives a description of the organization and function of the brain and spinal cord with particular reference being made to the sensory and motor systems.

Assessment: Apart from continuous assessment tests and practical examinations there are separate examination papers for Histology (S1), Embryology (S2), Gross Anatomy (S1) and Neuroanatomy (S2). At the end of Sessions 1 and 2 there is a separate examination in Histology and in Embryology respectively. Students must pass each component of the course to pass the whole course.

BIOC2329
Medical Biochemistry and Genetics
Staff Contact: A/Prof P. Schofield
S1 HPW 4.5 S2 HPW 4.5
Prerequisite: BIOC1319

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

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

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

MDSG2001
Clinical Studies 2
Staff Contact: Prof J. Dwyer
S1 HPW 2 S2 HPW 2

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 have the ability to take a basic
medical history and have seen a number of examples of disordered anatomy and physiology.

Assessment: Examination of two written clinical histories per session and examination of a student’s ability to present these histories orally. In Session 2, students are required to submit a case study. There is an emphasis on communication skills. Additionally, there will be continuous assessment by tutors. Students who fail to reach a satisfactory standard will be required to undertake further assessment which may include a clinical and vive voce examination.

PHPH2018
Medical Physiology 1
Staff Contact: Dr K. Gibson
S1 HPW8 S2 HPW8

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

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

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

PSCY2101
Human Behaviour
Staff Contact: Dr C. Mason
S1 HPW3 S2 HPW3

Objectives: To provide students with key concepts in the five main topic areas and demonstrate the practical application of these concepts in medical practice. The five main topic areas are: research methods in behavioural sciences, psychology in relation to medicine, sociology in relation to medicine, bioethics and human sexuality. Students are thus encouraged to develop an understanding of human behaviour as the result of the complex interaction of a number of factors so that they are more likely to appreciate and respect their patients and colleagues as persons. Taught in both sessions. Didactic material and some case material is presented in lectures and the tutorial program is structured to consolidate this information, frequently using discussion of specific case examples. Emphasis is placed on developing skills in clear professional communication, with feedback on written assignments, tutorial presentations, and encouragement to use visual aids in presentations. Specific topics covered include: risk behaviours; anxiety; stigma; social class and health; the sexual response and how it changes across the 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 assignment, and a tutorial presentation. In Session 2, students are required to write a major essay on Bioethics, present a tutorial paper and sit a final written examination.
Year 3 Subject Descriptions

For further information regarding these subjects contact the subject authorities.

CMED3001
Medical Ethics and Health Law
Staff Contact: A/Prof P. McNeill
S2 HPW1.5

Medical Ethics and Health Law builds on medical ethics presented in first year Introductory Clinical and Behavioural Studies and second year Human Behaviour, to give students additional preparation for ethical issues which arise in their placements in hospitals, general practice and community settings during years 3 to 6. The subject introduces students to medical practitioners' responsibilities in law including the duty of care, obligations to maintain privacy and confidentiality, and the legal basis of registration and de-registration of medical practitioners.

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

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

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

MDSG3001
Clinical Studies 3
Staff Contact: Prof J. Dwyer
S1 HPW4 S2 HPW4

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

Clinical Studies in Year 3 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 compliments 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. Students should be aware that the end of year written examination is based on questions derived from the material presented in the lecture program.

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

MICR3228
Microbiology for Medical Students
Staff Contact: Prof A. Lee
S1 HPW4 S2 HPW4

Objectives: The overall objective is for students to understand the fundamental nature of the interactions between parasites and their human hosts. In order to achieve this, students will be required to know the causative agents of common microbial diseases and how they produce their effects, comprehend host defence processes, understand the epidemiology of infectious diseases, understand the basis of prevention and treatment of microbial diseases, appreciate the role of the microbiologist in the diagnosis and management of microbial diseases and where appropriate, integrate these objectives with a knowledge of pathology and immunology. Early lectures and tutorials are concerned with the basics of the scientific discipline of microbiology by consideration of the structure, growth, physiological activity and genetic characteristics of bacteria, viruses, fungi and protozoa. Consideration is given to the nature of their responses to various physical, chemical and antibiotic agents which can be used to interrupt their normal function. An analytical approach is taken to the means by which these microorganisms exist in association with humans and their environment and how they gain access to tissues and produce disease. Attention is given to the mechanisms of host defence against microbial infection. Emphasis throughout the course is placed on diseases of body systems. Laboratory based classes emphasise the role of the laboratory in diagnosis and include the use of problem solving approaches to the study of microbial diseases.

Assessment: This is based on mid-year and final examinations as well as a component of continuous assessment by designated assignments. In addition, there
will be a multidisciplinary written examination which will contribute to the final mark.

**PATH3101**

**Pathology**

*Staff Contact: Prof A. Lykke*

*S1 HPW6 S2 HPW4*

The discipline of Pathology forms a continuous stream of teaching of the pathogenesis of disease throughout the 3rd, 4th, 5th and 6th years of the Medical curriculum. In Year 3, the subject PATH3101 comprises an introduction to the basic disease processes (General Pathology), i.e. those fundamental processes which are common to all tissues and organs of the body. The course covers classification of disease, and deals with both congenital and acquired diseases. The program comprises lectures, tutorials, practical classes and demonstrations on responses of cells to injury, inflammation, aberrations of the blood and vascular system and specific related effects of embolism and infarction, as well as studies of normal and abnormal growth, and of healing and regenerative processes. In addition, it includes consideration of the basic processes of neoplasia and carcinogenesis, as well as an introduction to the pathobiology of such contemporary health problems as environmental toxicology. In order to integrate the teaching of pathology with clinical studies, each fundamental process will be exemplified by references to examples of diseases of organ systems (Systemic Pathology) of practical importance.

**Assessment:** Proficiency in the subject, sufficient to proceed to Year 4, will be assessed by mid-year and final examinations which will comprise 30% and 70% respectively of the total mark in Pathology. Both assessments will comprise theory and practical components. The mid-year assessment will also include a small percentage of marks acquired in progressive assessments. In addition, there will be a multidisciplinary written examination which will contribute to the final mark.

**PHPH3055**

**Medical Pharmacology**

*Staff Contact: A/Prof I. Neering and A/Prof D. Jamieson*

*S1 HPW4.5 S2 HPW4.5*

**Objectives:** To understand the mechanism of drug action with special reference to drugs of clinical importance; to be aware of the principles of drug interaction. Medical pharmacology is the science of drugs or chemicals used to prevent, diagnose and heal disease, as well as the role of chemicals in the environment that cause disease. The medical pharmacology course is concerned with basic principles of drug action, including mechanisms of drug action, toxicology and drugs of clinical importance. Principles of drug action in animals and humans are examined.

**Assessment:** Examinations are held mid-year and at the end of the year and include both lecture and practical content. In addition, there will be a multidisciplinary written examination which will contribute to the final mark.

**Year 4**

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

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

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

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

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

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

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

Year 4 Subject Description

MDSG4001
Integrated Clinical and Community Studies
Staff Contact: Prof J. Dwyer

Objectives: By the end of 4th Year, students will be expected to have mastered the skills in communication, history taking, and physical examination. Students will be able to generate a list of the patient's problems which includes the physical, emotional and psychosocial aspects of the case. For each problem, students will develop a plan for problem resolution. Students will learn much about management and drug treatment during the 4th Year but only introductory aspects of therapeutics will be assessed at the end of the 4th Year. As 4th Year attachments will not be repeated in 6th Year, students must make the most of their opportunity to learn the management and therapeutic principles which they see in 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 4th Year 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 subspeciality units (e.g. cardiology, neurology, etc.), the attachment is not designed primarily to teach the student the details of that discipline, but rather, the approach to a patient's problems and their resolution is to be emphasised. This is an important consideration because, as subspeciality exposure in 4th Year cannot be uniform for all students, it is important that students are distributed to fully utilise the hospital's patients and ensure that they have sufficient contact with patients.

Structured teaching during clinical weeks will be limited. There will be regular sessions each week which will feature a discussion, with a member of the Faculty, of 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 the 4th or 6th Year 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 fourth year. At Liverpool Hospital, community medicine teaching will make use of the special relationship of this hospital to the community it serves.

Systematic pathology will be taught at all hospitals throughout the year and will be integrated with clinical teaching. The program includes one tutorial per week based on prepared clinical protocols (case presentations) which will explore the pathogenesis of those systematic diseases which were not covered in the context of 3rd Year 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 specialized 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.

In addition to the written papers, a clinical examination will be held. This will require students to take, present, and discuss a patient’s history and the results of a complete physical examination (long case examination). Patients with both medical and surgical problems may be assessed. There will also be an integrated Pathology viva voce examination based on macroscopic specimens.

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

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Year 5

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

The subjects studied in Year 5 are:

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

Sequence of Blocks

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

**Group B:**
- Term 5:1 (9 weeks) Paediatrics
- Term 5:2 (8 weeks) Psychiatry
- Term 5:3 (9 weeks) Obstetrics and Gynaecology
- Term 5:4 (9 weeks) Geriatrics, General Practice, Subspecialties

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

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

**Assessment and Rules of Progression**

The work of each rotating block is assessed during or towards the end of the block. Students will be required to pass in all 4 term examinations before progressing to the sixth year. Subject examiners may, in the time between the sitting of term assessments and the meeting of the Assessment Committee (normally Thursday of the term recess), require students to undertake further assessment. A student who fails one term may be required to repeat that term in a six week remedial period immediately following Term 5:4. Students are warned that they may be required to undertake such additional assessment and should take this into account if making travel arrangements for the period after the end of Term 5:4. A student who fails two terms or more will be required to repeat Year 5 in full.

**Preparation for Year 6 Elective Term**

Arrangements for Elective attachments in Year 6 must be made by the students. Students should commence these arrangements early in Year 5, especially those wishing to undertake attachments overseas. See subject description for MFAC6001 on page 38.

**Year 5 Subject Descriptions**

**MFAC5001**
Geriatrics/General Practice/Subspecialties

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

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

**Geriatrics**

*Objectives:* To gain an understanding of diagnosis and assessment in geriatric medicine; to address the management of certain specific disorders in the elderly such as dementia, falls, incontinence, stroke, mobility disorders, dying and terminal care; to gain information on appropriate drug therapy; to gain insight into the roles of workers involved in caring for the elderly including physiotherapists, occupational therapists, speech therapists, community nurses and nurses in nursing homes; to become familiar with the broad spectrum of geriatric services including the day hospital, the acute hospital, the rehabilitation centre, the nursing home, community nursing and hospice care; to stimulate thought concerning future directions for an ageing Australia.

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

**Assessment:** Students are assessed on written assessments and log book completion.
General Practice
By the end of the course the students will have:
1. An understanding of the knowledge, attitudes and skills required by a competent general practitioner.
2. Skills in communicating with patients especially in history taking and explaining.
4. Knowledge of the principles of management in general practice.

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

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

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

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

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

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

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

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

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

A program of lectures in core subjects, clinical, physiological and pathological conferences and simulated patient management problem exercises. Students are taught in small tutorial groups. 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.

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

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

Assessment: A multiple choice question paper and a clinical examination in the last week of term and progress assessment during the term.

Psychiatry
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 specialized practice to decide appropriate management strategies; to be aware of, and have some experience in basic counselling skills; to be able to assess a patient's personality, psychological adjustment, coping repertoires, social function; to appreciate the importance of psychological factors in the diagnosis and treatment of illness; to be trained in interpersonal skills appropriate to clinical practice in any area of medicine; to be aware of the
The lecture, tutorial and correlation clinic programs build on two further campus weeks will be supplied during the year. The first week of the year will involve a campus program first weeks of Year 6. Students must report to the University to have students leave medical school committed to the importance of continued medical education.

The first term in Year 6 is an Elective term (MFAC6001) of 8 weeks. The remaining five terms totalling 33 weeks are devoted to the subject Integrated Clinical Studies 6 (MDSG60001) which is primarily based in the teaching hospitals.

Year 6 Subject Descriptions

MDSG6001
Integrated Clinical Studies 6
Staff Contact: Prof J. Dwyer

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

To have students leave medical school committed to the importance of continued medical education.

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

After the completion of fifth year, 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 early March to commence the formal work associated with the Clinical Studies program for Year 6.

The first 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 supplied 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 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 fill out the year. For one of the six week terms, students will be attached to an emergency room and an intensive care unit at a principal teaching hospital, or a selected peripheral hospital, where appropriate arrangements have been made for supervision. The remaining terms assigned to students will complement terms completed in Year 4. One medical and one surgical attachment will be provided at the students' principal hospital and a further term will be provided at a peripheral hospital.

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

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

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

MFAC6001
Final Year Elective Term
Staff Contact: Prof W.E. Glover

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

The elective term may include work in one of the following areas: in any school or department within the Faculty of Medicine; in a hospital or medical institution either in Australia or in another country; with a medical practitioner either in Australia or in another country.

Students are encouraged to consider commencing their elective term early by extending it over the period from the end of Year 5 to the end of the first week in March of the subsequent year.

Students should make individual arrangements for electives and are advised that some overseas
governments, health authorities and/or hospitals require very early applications, accompanied by certification that the applicant is an enrolled medical student of the University who is eligible to undertake the specified term. When making the arrangements, students should specifically request that an appropriate person is willing to act as a supervisor. The supervisor is asked to submit a report to the Faculty Office by the end of the term.

**Students who gain more than one acceptance for the elective term must communicate their refusals as soon as possible.**

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

**Assessment of the Elective Term:** Each student is required to produce a report which describes the nature of the work done during the Elective Term. This should be approximately 1000 words in length. The reports from the student and the supervisor must be submitted to the Faculty Office no later than the last day of the elective term. The reports are forwarded to the relevant Clinical Associate Dean for a decision as to whether the student has completed a satisfactory term, and thence to the Assessment Committee. It is the student’s responsibility to ensure that both reports (including the supervisor’s report) are received by the due date and in time for consideration by the Assessment Committee.

In general, students undertaking elective terms approved by the Dean are covered in respect of medico/legal claims made or actions instituted against them under the University’s public liability and professional indemnity policy. However, this cover excludes claims made or actions instituted within the United States of America or Canada or territories under the jurisdiction of the courts of those countries. Students undertaking elective terms in the USA or Canada are therefore advised to ensure that they will be covered under the liability policies of the institutions at which they will be working, or that they arrange their own personal cover before commencing the term. Students should also be aware that the University does not insure them against personal injury or illness. There is a limited cover provided by an insurance policy taken out by the Student Union. Enquiries about this policy should be made directly to the Student Union.
Combined Science and Medicine Course

BSc MB BS

The Science/Medicine course is an alternative course of study, whereby, over a seven-year program, a student may complete the degree of Bachelor of Science, with the Bachelor degrees of Medicine and Surgery. The Science/Medicine course is intended for those students with special interest and aptitude in science, who wish to obtain a firm grounding in basic sciences. A limited number of places are available in this course and these are open only to students who have been accepted for entry into the Faculty of Medicine.

Students who wish to undertake this program should contact the Faculty Office as soon as possible after receiving their offer of a place in the Faculty. Selection of students for the Science/Medicine course is made approximately two weeks before commencement of Session 1. The students undertake a three-year course of study approved by the Chairman of the Faculty's BSc MB BS Committee leading to the award of the degree of BSc, and on completion, enter Year 3 of the normal Medicine Course. The student is offered a choice of a number of programs, leading to a major or double major in one or two of the subjects anatomy, biochemistry and physiology. After the three years, students may apply to do honours in the subject of their major, before entering the medical program.

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

Course Details

The Science course is divided up into subjects each of which is assigned a 'unit value'. For the Science degree, 24 units are required, together with 56 hours of Category B General Education electives. Students usually take 8 units in Year 1, 8 in Year 2, and 8 in Year 3.

Year 1

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

Year 2

All students must take two units each of biochemistry, anatomy, and physiology. In addition, students may take an elective unit in Session 2. Some Year 3 programs require students to take a specified unit in place of the optional elective. One unit of human behaviour must be taken in either second or third year.

Year 3

Students must take a minimum of 4 level III units in the subject of their major, which must be anatomy, biochemistry or physiology. The program must include at least two Level II Anatomy units and BIOC3261 Human Biochemistry. Under some circumstances one of the Anatomy or Biochemistry units may be taken in Year 2. The possible combinations are indicated in the following table. One unit of human behaviour must be taken in either second or third year. Students are not permitted to enrol in either PHPH3152 Pharmacology or PATH3201 Basic and Applied Pathology. Pharmacology and Pathology are subjects studied by all students in Year 3 of the Medicine course. Students who complete PHPH3114 Physiology 2

MAY be given an exemption from the Year 3 Medicine subject PHPH3014 Medical Physiology 2.

Subjects

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

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

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

Year 1

BIOS1011, BIOS1021
CHEM1002
PHYS1002 or PHYS1022
MATH1032 or MATH1042 or both MATH1011 and MATH1021

General Education Category B. One 56-hour or 2 x 28 hour elective/s.
### Year 2
ANAT2111, ANAT2211,  
BIOC2372  
PHHP2112  
Elective units*  
PSCY2201**

* In choosing Year 2 elective subjects, students should take into consideration prerequisites for their major. Students not majoring in Anatomy should take either ANAT3121 Visceral Anatomy or ANAT3311 Mammalian Embryology in Year 2. Students majoring in Biochemistry must take either CHEM2021 Organic Chemistry or CHEM2041 Chemical and Spectroscopic Analysis or obtain exemption from level II Chemistry prerequisites from the Head of School of Biochemistry and Molecular Genetics. Students completing an Anatomy double major or an Anatomy and Physiology double major may be permitted to take BIOC3261 Human Biochemistry in Session 2 of Year 2, subject to satisfactory results in the Session 1 examination in BIOC2372 as determined by the Head of School of Biochemistry and Molecular Genetics.

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

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

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

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

**Anatomy and Physiology Double Major**
4 Level III Anatomy units  
BIOC3261 Human Biochemistry**  
PHHP3114  
PSCY2201*  

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

**Biochemistry Double Major - Not available**

### Biochemistry and Physiology Double Major
1 Level III Anatomy unit  
BIOC3261 Human Biochemistry  
2 additional level III Biochemistry units  
PHHP3114  
PSCY2201*  

**Physiology Major**
2 Level III Anatomy units  
BIOC3261 Human Biochemistry  
PHHP3114  
PSCY2201*  
1 Elective unit

**Physiology Double Major - Not available**

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

** BIOC3261 Human Biochemistry must be taken in Year 3 if not taken in Year 2.

### Year 4
Students usually join Year 3 of the Medicine Course. However, students may apply to take honours in the subject of their major before proceeding to the Medicine Course. The honours program is a one-year research project in the school. Details are given in the Science Handbook. Enquiries should be directed to the head of the appropriate school.

Honours may also be awarded at the time of graduation with the degrees of MB BS, on the basis of a student's performance throughout the combined course (excluding any special studies for honours in Science). The award of honours shall be determined on the basis of a weighted aggregate mark, calculated as the sum of weighted aggregate marks obtained in the medical component of the course calculated in accordance with the rules applying to the Medicine Course 3801, together with an aggregate mark based on the Science component of the course.
3840
Combined Arts and Medicine Course
BA BSc(Med) MB BS

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

A limited number of places are available in this course and these are open only to students who have been accepted for entry into the Faculty of Medicine. Students who wish to undertake this program should contact the Faculty Office as soon as possible after receiving their offer of a place in the Faculty. Selection of students for the Arts/Medicine course is made approximately two weeks before commencement of Session 1.

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

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

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

Course Details

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

Year 1

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

Year 2

Medicine Year 2 subjects are to be spread over years 2 and 3 to allow for the completion of upper level subjects of their Arts major sequence, plus additional subjects to complete the BA component. The Medicine subjects BIOC2329 Medical Biochemistry and Genetics and ANAT2007 Anatomy 2 must be taken in year 2 of the BA BSc(Med) MB BS course. The subject PSCY2101 Human Behaviour may be taken in either Year 2 or Year 3 of the program.

Year 4

Students join Year 3 of the Medicine Course.

Honours may be awarded at the time of graduation with the degrees of BSc(Med) MB BS, on the basis of a student's performance throughout the combined course. The award of honours shall be determined on the basis of a weighted aggregate mark, calculated as the sum of weighted aggregate marks obtained in the medical component of the course calculated in accordance with the rules applying to the Medicine Course 3801.
Intern Placement and Ranking of Students

Intern Placement and Registration

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

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

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

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

Deferment of Internship

1. Deferment of internship for up to two years.

This may be granted by the Medical Board on the recommendation of the graduate’s medical school. Normally this will be granted on medical grounds only, but in exceptional circumstances may be granted on other personal or compassionate grounds (eg. temporary transfer overseas with spouse, 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. The medical school should take undergraduate performance into account in determining the length of deferment, and if it wishes may require the applicant to undertake some form of revision and/or assessment before the internship is allowed to commence.

2. Deferment of internship for more than two years.

If a graduate does not take up an internship within two years of graduation the Board will require evidence that the applicant has undertaken an appropriate period of revision and has been assessed as meeting the standards of current graduating students by an accredited Australian medical school. Normally this will be undertaken in the Medical School where the undergraduate course was completed, but in exceptional circumstances (eg. family transfer to another State) – it could be undertaken at another school. The Medical School should provide the Board with details of the revised program and assessment.

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

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

Ranking Students for the Award of Honours and Intern Placement

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

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

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

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

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

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

Level I subjects weighted by a factor equal to 0.0625 per unit, except Introductory Mathematics and Introductory Physics (0.05 per unit) and Higher Mathematics and Higher Physics (0.07 per unit).

Level II subjects weighted by 0.1875 per unit.

Level III subjects weighted by 0.25 per unit.

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

Level IV subjects (Honours) not counted.

The three years of BSc component of the BSc MBBS course are treated as equivalent to the first two years of the MBBS course and therefore have a total year weight of 6 relative to the MBBS year weightings.

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

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

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

Award of Honours

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

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

3. As a guide, the distribution of the awards of honours in 1991 was:

Class I Honours
Course Mark: 69.5%
Number of Awards: 21
% of graduands: 10.9

Class II Div. I
Course Mark: 66.6-69.4%
Number of Awards: 23
% of graduands: 12.0

Class II Div. II
Course Mark: 64.5-66.5%
Number of Awards: 31
% of graduands: 16.1

Intern Placement

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

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

Table 1. Subject Weights Within Years
(6 Year Course)

<table>
<thead>
<tr>
<th>Year</th>
<th>Subject</th>
<th>Year Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>Introductory Clinical and Behavioural Studies</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>Biology for Medical Students</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>Biochemistry for Medical Students</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>Medical Biochemistry and Genetics</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>Anatomy 2</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>Medical Physiology 1</td>
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<td>Medical Physiology 2</td>
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<td>9</td>
<td>Medical Pharmacology</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>Clinical Studies 3</td>
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</tr>
<tr>
<td>11</td>
<td>Medical Ethics and Health Law</td>
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| Year | Integrated Clinical and Community Studies    | 1              |

<table>
<thead>
<tr>
<th>Year</th>
<th>Obstetrics &amp; Gynaecology</th>
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<tr>
<td>4</td>
<td>Paediatrics</td>
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<tr>
<td>5</td>
<td>Psychiatry</td>
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</tr>
<tr>
<td>6</td>
<td>Geriatrics/General Practice/Subspecialty</td>
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| Year | Integrated Clinical Studies 6                | 1              |

Table 2. Year Weights

<table>
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<th>Year Weighting</th>
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<td>5</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>
Bachelor of Science (Medicine) Honours
BSc (Med) Hons

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

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

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

Rules for the Award of the Bachelor of Science (Medicine) Degree with Honours (BSc(Med)Hons)

(For candidates in the Courses 3801 and 3840)

1. (a) Undergraduates who have successfully completed the first three years of the six year Medicine Course 3801 or the first four years of the seven year Arts/Medicine Course 3840 may enrol for the degree of BSc(Med)Hons in one of the following subjects: anatomy, biochemistry, microbiology, pathology, pharmacology, physiology, psychology or in any other subject approved by the BSc(Med)Hons Committee provided that the candidate's performance in the subject area has been of a high standard.

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

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

Assessment Guidelines

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

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

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

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

5. Students are also required to participate in a General Education (Category C) program. This requirement is met by subject CMED3001 Medical Ethics and Health Law in Year 4 of the course, and teaching in ethics in Years 5, 6, and 7 of the course.

6. The degree of BSc(Med)Hons may be awarded in the following grades: Honours Class I; Honours Class II, Division I; Honours Class II, Division II or no award made.
## Subject Descriptions

### Summary of Compulsory Undergraduate Subjects

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

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Year</th>
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<tbody>
<tr>
<td>ANAT1006</td>
<td>Anatomy 1</td>
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<td>ANAT2007</td>
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<td>BIOC2329</td>
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<td>CMED3001</td>
<td>Medical Ethics and Health Law</td>
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<td>MDSG2001</td>
<td>Clinical Studies 2</td>
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<tr>
<td>MDSG3001</td>
<td>Clinical Studies 3</td>
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<td>MDSG4001</td>
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<td>MFAC1001</td>
<td>Introductory Clinical &amp; Behavioural Studies</td>
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<td>MFAC5001</td>
<td>Geriatrics/General Practice/Subspecialties</td>
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<td>MFAC6001</td>
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<td>OBST5001</td>
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<tr>
<td>PHPH3055</td>
<td>Medical Pharmacology</td>
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</tbody>
</table>

### Anatomy

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

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

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

**ANAT2211**  
**Histology 1**  
*Staff Contact: A/Prof P. Waite  
F HPW3  
Prerequisites: BIOS1011, BIOS1021  
Corequisite: ANAT2111*

Elementary theory of light and electron microscopy. General cell morphology and ultrastructure. Introduction to simple histological techniques and artefacts. Basic histology, including the morphological and functional properties of epithelial, connective, muscle and nerve tissues. Systematic histology, including a histological examination of the major systems of the body; cardiovascular, respiratory, lymphatic, integumentary, digestive, endocrine, urinary, reproductive and nervous (including eye and ear) systems. Emphasis on the ability to interpret histological sections and selected electron micrographs of mammalian tissues and organs and to relate morphology to tissue and organ function.

**ANAT3121**  
**Visceral Anatomy**  
*Staff Contact: Dr K. Ashwell  
S2 HPW6  
Prerequisite: ANAT2111*

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

**ANAT3131**  
**Functional Anatomy 1**  
*Staff Contact: A/Prof D. Tracey  
S1 HPW6  
Prerequisite: ANAT2111*

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

ANAT3141
Functional Anatomy 2
Staff Contact: A/Prof D. Tracey
S2 HPW6
Prerequisite: ANAT3131

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

ANAT3211
Histology 2
Staff Contact: Dr B. Freeman
F
Prerequisite: ANAT2211
Note/s: Excluded: ANAT3220 (if ANAT3211 is taken after ANAT3220 total counts only 1 unit.)


ANAT3220
Histological and Histochemical Techniques
Staff Contact: Dr B. Freeman
S2 HPW3
Prerequisites: BIOS1011, BIOS1021 and either BIOC2312, BIOC2372 or BIOS2061 or ANAT2211
Note/s: Excluded: ANAT3211.


ANAT3311
Mammalian Embryology
Staff Contact: Dr M. Smith
F HPW3
Corequisites: ANAT2211, ANAT2111


ANAT3411
Neuroanatomy 1
Staff Contact: Dr E. Tancred
S1 HPW6
Prerequisites: ANAT2211, ANAT2111

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

ANAT3421
Neuroanatomy 2
Staff Contact: A/Prof P. Waite
S2 HPW3
Prerequisite: ANAT3411

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

ANAT4000
Anatomy 4
Staff Contact: Dr K. Ashwell
F
Prerequisite: Completion of the first three years of any Science program with a major in Anatomy (see Table 3 of Science Handbook)

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

Biochemistry

BIOC2372
Biomedical Biochemistry
Staff Contact: Dr M. Edwards
U2 HPW6
Prerequisites: BIOS1011 and BIOS1021, CHEM1101 and CHEM1201 or CHEM1002
Note/s: Excluded BIOC2101, BIOC2312, CHEM2929.

Introduction to modern biochemistry and molecular biology with emphasis on the human. The properties and roles of the biologically-important molecules including amino acids, peptides and proteins, carbohydrates, lipids and nucleic acids. The nature and function of enzymes as catalysts. The intermediary metabolism of carbohydrates, lipids and nitrogenous compounds in the various tissues and organs and the interrelationships between these pathways. The role of hormones in metabolic regulation. The respiratory chain, oxidative phosphorylation and energy-trapping systems. The molecular mechanism of gene expression including DNA, RNA and protein synthesis. Recombinant DNA technology and protein engineering. The impact of modern molecular biology in forensic science and in the study of inherited diseases. Practical work to complement the lectures.
Modern aspects of the structure-function relationships of proteins including discussion of the latest techniques of protein characterization. Topics include: separation and analytical procedures; determination of amino acid sequence data; the nature of protein-protein and protein-ligand interactions including aspects of substrate binding, enzyme kinetics and enzyme mechanisms; the molecular architecture of proteins from the standpoint of the relationships among primary, secondary, tertiary and quaternary structures; aspects of protein engineering. Practical work illustrates and complements the lectures and provides experience with modern techniques of protein molecular biology.

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

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

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

Cell biology from a molecular viewpoint. Biochemical aspects of cellular organization and how they are integrated and controlled. The arrangement of the component molecules of organelles, their function in integrated cellular metabolism and the molecular interactions between the cells of multicellular organisms. The biochemistry of the cytoskeleton, carriers and intracellular transport systems. The regulation of cellular processes at the molecular endocrine level. Growth and differentiation. Aspects of cancer metabolism, the biochemistry of cell to cell communication and the structure and function of the extracellular matrix. Complementary to BIOS3141 Ultrastructure and Function of Cells and students with a special interest in cell biology are encouraged to take both subjects. Practical work amplifies the lectures.

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

**Biological Science**

**BIOS1011**
**Biology A**
Staff Contact: Dr M.L. Augee
U1 S1 HPW6

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

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

The biology of cells; their structure as seen with light and electron microscopes; how they move, take in and excrete substances; their chemistry and use of energy. Inheritance and mutations; genes and how they work. The theory covered in the lectures and tutorials is illustrated by observation and experiment in laboratory classes.
BIOS1021
Biology B
Staff Contact: Dr M.L. Augee
U1 S2 HPW6
Prerequisites: BIOS1011
The evolution, diversity and behaviour of living things and the ways in which they have adapted to varying environments. Emphasis on the structure and function of flowering plants and vertebrate animals, and their roles in Australian ecosystems. The theory covered in lectures and tutorials is illustrated by observation and experiment in laboratory classes, which include dissection of a toad and a rat.

BIOS2031
Biology of Invertebrates
Staff Contact: A/Prof P. Greenaway
U1 S2 HPW6
Prerequisites: BIOS1011 and BIOS1021
Note/s: Enrolment in this unit may be subject to quote restrictions. Such restrictions will only apply to students taking this unit as an elective part of their program.
A comparative study of morphology, taxonomy, functional biology and evolutionary relationships of invertebrates. Emphasis on major phyla and marine forms. Practical work includes anatomy of living and preserved specimens (including dissections) and a compulsory fieldcamp. Personal expenses will be incurred.

BIOS2061
Vertebrate Zoology
Staff Contact: Dr M. Augee
U1 S1 HPW6
Prerequisites: BIOS1011 and BIOS1021
Note/s: Excluded 45.301, 17.732. Practical class applications must be obtained during re-enrolment week from G20, Biological Science Building. Enrolment in this unit may be subject to quote restrictions. Such restrictions will only apply to students taking this unit as an elective part of their program.
Comparative study of the Chordata, with particular reference to the vertebrates, including morphology, systematics, evolution and natural history, with reference to selected aspects of physiology and reproduction. Practical work to supplement lectures. Participations in field excursions is compulsory.

Chemistry

CHEM1101
Chemistry 1B
Staff Contact: Dr P. Chia
U1 S2 HPW6
Prerequisite: CHEM1101
Note/s: The two subjects CHEM1101 and CHEM1201, taken sequentially, are equivalent to CHEM1002.
Molecular geometry, hybridisation of orbitals. Periodicity of physical and chemical properties of elements and compounds. Organic chemistry, including stereoisomerism.

Community Medicine

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

CMED8201
Population Genetics
Staff Contact: Dr A. Stark
S1 HPW5
Prerequisite: One unit of statistical methods, or theory, as approved by the Head of School
The genetic structure of populations: genetic relationships, mating systems (random and assortative mating, inbreeding, sexual selection), finite populations, systematic forces (selection, mutation, migration), genetic distance between populations, genetic load, stable populations, molecular population genetics, evolutionary trees; computer methods.

CMED8202
Human Genetic Analysis
Staff Contact: Dr A. Stark
S2 HPW5
Prerequisites: One unit of genetics and one unit of statistical methods, or theory, as approved by the Head of School
Principles and methods of human genetics: design of surveys; estimation and applications of genic and genotypic frequencies, selective values, mutation and migration rates, coefficients of kinship, inbreeding and assortative mating, recombination fractions and heritabilities; segregation analysis; risks of recurrence of disease; consequences of human intervention; computer methods.

CMED8302
Biochemical Genetics of Man
Staff Contact: Dr L.Y. C. Lai
S2 HPW6
Prerequisite: BIOC2312 or BIOC2372 and BIOS2021 or CMED8303
Inherited variation of blood group proteins, their possible selective roles, and their application to the study of the biological relationship between populations and recent advances in their gene characterization. Inherited DNA variation or restriction fragment length polymorphism and variable number of tandem repeats, their application to studies of genetic diseases and of human populations. General approach from two loci per chromosome. Application of statistical techniques to analyzing population data.

CMED8303
Human Genetics
Staff Contact: Dr L.Y.C. Lai
S1 HPW6
Prerequisite: BIOS2021
The principles and concepts of human genetics and methods used to study the nature and extent of genetic differences; mechanisms of inheritance and gene expression, gene linkage and patterns of inheritance; principles and applications of population genetics and cytogenetics; modern molecular techniques for human gene mapping, gene localisation, disease and the prospects of gene therapy; genetic fingerprinting and current ethical issues in human genetics.

Mathematics

MATH1011
General Mathematics 1B
Staff Contact: School of Mathematics First Year Office
U1 S1 HPW6
Prerequisites: HSC exam score range required: 2 unit Mathematics (60-100) or 2 and 3 unit Mathematics (1-150) or 3 and 4 unit Mathematics (1-200). (2 unit Mathematics in this instance refers to the 2 unit Mathematics subject which is related to the 3 unit Mathematics subject. It does not refer to the subjects Mathematics in Society or Mathematics in Practice. These numbers may vary from year to year.)
Note/s: Excluded MATH1011, MATH1021, MATH1042, ECON2200, ECON2201, ECON2202.
Functions (and their inverses), limits, asymptotes, continuity; differentiation and applications; integration, the definite integral and applications; inverse trigonometric functions; the logarithmic and exponential functions and applications; sequences and series; mathematical induction; the binomial theorem and applications; introduction to probability theory; introduction to 3dimensional geometry; introduction to linear algebra.

MATH1021
General Mathematics 1C
Staff Contact: School of Mathematics First Year Office
U1 S2 HPW6
Prerequisite: MATH1011
Note/s: Excluded MATH1032, MATH1042, ECON2200, ECON2201, ECON2202.
Techniques for integration, improper integrals; Taylor's theorem; first order differential equations and applications; introduction to multivariable calculus; conics; finite sets; probability; vectors, matrices and linear equations.

MATH1032
Mathematics 1
Staff Contact: School of Mathematics First Year Office
U2 F HPW6
Prerequisites: HSC exam score range required: 2 unit Mathematics (67-100) (from 1995 this will be 90-100) or 2 and 3 unit Mathematics (100-150) or 3 and 4 unit Mathematics (100-200) or MATH1011 (2 unit Mathematics in this instance refers to the 2 unit Mathematics subject which is related to the 3 unit Mathematics subject. It does not refer to the subjects Mathematics in Society or Mathematics in Practice. These numbers may vary from year to year.)
Note/s: Excluded MATH1011, MATH1021, MATH1042, ECON2200, ECON2201, ECON2202.
Calculus, analysis, analytic geometry, linear algebra, an introduction to abstract algebra, elementary computing.

Medicine

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

MDCN8001
Principles of Medicine for Optometry Students
Staff Contact: A/Prof L. Simons (St Vincent's Hospital)
F HPW1
Note/s: Students normally take the subject in Year 4 of course 3950.
An overview of historical, epidemiological, pathophysiological, diagnostic, therapeutic and public health aspects of disease in man and the various clinical categories of practice.

Pathology

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

PATH3201
Basic and Applied Pathology
Staff Contact: A/Prof C. Howlett
F HPW3
Prerequisites: ANAT2211, ANAT2111, PHPH2112 or equivalent
Lectures and practical class demonstrations. Includes exposition of the basic classification of pathological processes, study of the processes of cell and tissue degeneration, acute and chronic inflammation, vascular disease, including thrombosis, embolism, ischaemia and infarction. Coverage of the processes of healing and regeneration with specific reference to healing of skin wounds and the healing of fractures. Aberrations of cell growth used to introduce the subject of neoplasia and carcinogenesis. Exposure to examples of specific disease entities of general practical importance exemplifying the basic or fundamental processes such as appendicitis, pneumonia, arthritis, pulmonary and myocardial infarction as well as lung, alimentary and cerebral tumours. Correlation of pathological processes with development of specific clinical syndromes.
Physiology and Pharmacology

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

**PHPH2112**
Physiology 1
Staff Contact: Dr J. Morley
F HPW6
Prerequisites: BIOS1021; CHEM1002 or CHEM1011 and CHEM1201 or a credit level pass in CHEM1302 or CHEM1401 and CHEM1501; MATH1032 or MATH1042 or MATH1011 and MATH1021
Corequisite: BIOC2312 or BIOC2372
Note/s: From 1994, student numbers in Physiology 1 will be limited, and entry to the subject will be allocated on academic merit.

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

**PHPH2122**
Principles of Physiology (Optometry)
Staff Contact: Dr J. Morley
F HPW6
Note/s: Restricted to course 3950.

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

**PHPH3114**
Physiology 2
Staff Contact: Prof M. Rowe
F HPW12
Prerequisites: PHPH2112, BIOC2312 or BIOC2372
Note/s: From 1995, student numbers in Physiology 2 will be limited and entry to the course will be allocated on academic merit.

A major subject offered in Year 3, providing a more advanced course of study in Physiology. Laboratory experiments illustrate various physiological principles and introduce research techniques. Orientated towards the major research interests of the School, the subject is divided into several sections which may be available in special circumstances as separate 1 and 2 unit Level III subjects, including Membrane Biology, Neurophysiology and Organ Physiology, details of which are given below.

**PHPH3121**
Membrane Biology
Staff Contact: A/Prof P. Barry
S1 HPW6
Prerequisites: Normally as for PHPH3114 but may be studied only with permission of the Head of School.
Note/s: From 1995, student numbers in this subject will be limited, and entry to the course will be allocated on academic merit.

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

**PHPH3131**
Neurophysiology
Staff Contact: Prof M. Rowe
S1 HPW6
Prerequisites: Normally as for PHPH3114 but may be studied only with permission of the Head of School
Note/s: From 1995, student numbers in this subject will be limited, and entry to the course will be allocated on academic merit.

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

**PHPH3142**
Organ Physiology
Staff Contact: A/Prof M. Perry
S2 HPW12
Prerequisites: Normally as for PHPH3114, but may be studied only with permission of the Head of School
Note/s: From 1995, student numbers in this subject will be limited, and entry to the course will be allocated on academic merit.

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

**PHPH3152**
Pharmacology
Staff Contact: A/Prof G. Graham
F HPW6
Prerequisites: PHPH2112, BIOC2312 or BIOC2372
Note/s: From 1995, student numbers in this subject will be limited, and entry to the course will be allocated on academic merit.

Includes a study of the absorption, distribution and metabolism of drugs, plus a study of the pharmacology of the autonomic nervous system, the cardiovascular system, the central nervous system, the kidney, the endocrine system and also a study of pharmacokinetics. Practical complementing of the lecture program by demonstrating a variety of basic pharmacological techniques.

**PHPH4218/PHPH4224**
Physiology Honours
Staff Contact: Dr D. Garlick
F HPW10
Note/s: Completion of program 7300 including 7 level III units, 4 of which must be Physiology.

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

**PHPH4258/PHPH4264**  
**Pharmacology Honours**  
*Staff Contact: Dr D. Garlick*  
F HPW 10

**Note/s:** Completion of program 7301 including 7 level III units.

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

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**Physics**

**PHYS1002**  
**Physics 1**  
*Staff Contact: First Year Director*  
U2 F HPW6

**Prerequisites:** HSC Exam Score Range Required: 2 unit Mathematics 67-100, or 3 unit Mathematics 1-50, or 4 unit Mathematics 1-100 and (for PHYS1002 only) MATH1011, and 2 unit Science (Physics) 57-100, or 2 unit Science (Chemistry) 60-100, or 3 unit Science 90-150, or 4 unit Science 1-50 or PHYS1022 (2 unit Mathematics in this instance refers to the 2 unit Mathematics subject which is related to the 3 unit Mathematics subject, and does not refer to the subjects Mathematics in Society or Mathematics in Practice).  
**Corequisite:** MATH1021 or MATH1032.

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

**PHYS1022**  
**Physics 1 (For Health and Life Scientists)**  
*Staff Contact: First Year Director*  
U2 F HPW6

**Corequisites:** MATH1011 and MATH1021 or MATH1032.

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

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

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**Psychiatry**

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

**PSCY2201**  
**Human Behaviour**  
*Staff Contact: Dr C. Mason*  
F HPW3

As for PSCY2101. See Undergraduate Study: 3801 Medicine Course, earlier in this handbook.
Faculty of Medicine Graduate Enrolment Procedures

All students enrolling in graduate courses should obtain a copy of the free booklet Re-enrolling 1994 available from the School Offices and the Admissions Office. This booklet provides detailed information on enrolment procedures and fees, enrolment timetables by faculty and course, enrolment in miscellaneous subjects, locations and hours of cashiers and late enrolments. Students interested in undertaking a graduate course should consult the appropriate Head of School or the Postgraduate Section (through the Admissions Office in the Chancellery).

Graduate Courses

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

Course Outlines

School of Community Medicine

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

2855
Master of Community Health By Research

MCH

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

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

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

The candidate is required to submit a thesis embodying the results of the original investigation.
**9020**

**Master of Community Health By Formal Course Work**

**MCH**

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

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

**Group A: Compulsory Nominated Subjects**

- CMED9500 Epidemiology
- CMED9513 Applied Epidemiology
- CMED9514 Biostatistics 1

**Group B: Nominated Subjects**

- CMED9517 Advanced Biostatistics and Statistical Computing
- CMED9518 Case Studies in Epidemiology
- CMED9519 Demography
- CMED9520 Introductory Statistical Computing and Statistics in Epidemiology

**Group C: Academic Electives**

- CMED9504 Major Project
- CMED9100 Independent Studies
- CMED9600 Disability
- CMED9602 Health and Illness Behaviour
- CMED9603 Communication and Writing in Health
- CMED9604 Alcohol and Drug Related Problems
- CMED9605 Health in Developing Countries
- CMED9606 Women and Health
- CMED9607 Researching Women's Health
- CMED9608 Rural Health Studies 1
- CMED9609 Community Genetics
- CMED9610 Community Nutrition
- CMED9611 Health of the Elderly
- CMED9612 Environmental Health
- CMED9613 Health and Public Policy
- CMED9614 Genetic Epidemiology
- CMED9615 Primary Health Care
- CMED9617 Community Paediatrics
- CMED9618 Ethics in Medicine and Community Health
- CMED9621 HIV/AIDS: Challenging and Changing Health Care Systems
- CMED9622 Prevention
- CMED9623 Health Informatics in Primary Care
- CMED9620 Health Population in Rural Areas

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

**9025**

**Master of Medicine (Geriatrics)**

**MMed**

The Master of Medicine degree requires completion of one year full-time course work, plus a major project (6 months) or two years part-time work and a major project (6 months).

Master's degree candidates must achieve 16 credit points plus 140 (10 credit points) hours of supervised clinical experience. One credit point is equivalent to 14 hours of class contact. Candidates must also be successful at an oral long-case examination at the end of formal teaching before being permitted to complete a major research project, equivalent to 10 credit points.

The course will include the following components and will require 364 hours attendance at the University or other designated centres.

- **Lectures:** 2 semesters (28 weeks) with the equivalent of 4 hours per week.
- **Seminars/Tutorials:** 8 hours per fortnight.
- **Clinical Work:** 140 hours of supervised clinical work to be carried out at Geriatric Units of approved teaching hospitals affiliated with the Faculty of Medicine, UNSW. These placements will be arranged for the candidates. Full-time candidates will carry out this work during the two semesters when they attend lectures, whereas the part-time candidates will carry out this work over 4 semesters.

- **Projects:** The major project is equivalent to 10 credit points and is to be completed over a period of six months by the candidates who obtain the required credit points and then are successful at an oral long case examination.
- **Examination:** A long case clinical examination will be held at the end of the second semester for full-time students and at the end of the fourth semester for part-time students. Successful candidates will proceed to complete the major research project over a period of six months. Candidates may, in appropriate situations, be permitted to undertake the major research project overseas.

- **Subjects** are in two groups - Group (A) and Group (B).

Subjects (1) to (3) are already provided by the School of Community Medicine. The remaining subjects will be taught at St George Hospital.

All subjects are compulsory. Each credit point is equivalent to one hour class contact per week.
### School of Medical Education

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

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#### 2885

**Master of Health Personnel Education By Research**

**MHPed**

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

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

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

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#### 9000

**Master of Health Personnel Education By Formal Course Work**

**MHPed**

The course is designed to cultivate abilities required to plan, implement and evaluate programs in educational institutions, to undertake health workforce planning, and to lead community development and program management. A major emphasis in the course is on student activity, individually and in small groups.

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

#### Compulsory Nominated Subjects

**Session 1**

MEED9101  Learning and Teaching  
MEED9104  Organisation and Management for Health Personnel Education

**Session 2**

MEED9105  Curriculum Planning  
MEED9108  Program Evaluation and Planned Change

#### Academic Electives

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

**Session 1**

MEED9010  Understanding and Working in Communities  
MEED9012  Current Approaches to Health Promotion  
MEED9102  Educational Process in Small Groups  
MEED9103  Instructional Design  
MEED9106  Teaching Skills  
MEED9115  Educational Selection  
MEED9116  Trends in Health Sciences Curricula  
MEED9118  Clinical Problem Solving  
MEED9122  Primary Health Care  
MEED9123  Production of Audio Visual Materials  
MEED9124  Clinical Teaching  
MEED9125  Planning, Conducting and Evaluating Educational Workshops  
MEED9127  Research in Education for the Health Professions
Candidates are required, in addition to formal course work, to complete a six-month field project and report. The project is planned during the period of formal course work and carried out in the student's home institution. It should focus on an area of health personnel education relevant to the candidate's professional interests and development and to the furthering of health personnel education.

5502
Graduate Diploma in Health Personnel Education
GradDipHPEd

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

9050
Master of Clinical Education By Distance Education
MClinEd

5501
Graduate Diploma of Clinical Education By Distance Education
DipClinEd

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

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

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

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

Subjects to be offered within the distance education programs are:

MEED9315 Clinical Teaching
MEED9316 Learning Consulting Skill
MEED9302 Learning in Small Groups
MEED9303 Clinical Practice as a Discipline
MEED9304 Learning Clinical Reasoning
MEED9305 Learning from Experience
MEED9306 Supervision, Mentoring and Feedback
MEED9307 Exploring and Managing Ethical and Moral Dilemmas
MEED9308 Learning Clinical Decision Making
MEED9309 Assessment of Clinical Performance
MEED9310 Evaluation of Clinical Teaching
MEED9311 Patient and Family Education
MEED9312 Research into Clinical Education
MEED9313 Planning Educational Programs
MEED9314 The Ward (or Office) as a Social and Learning Environment
MEED9317 Clinicians as Managers
MEED9351 Independent Study
MEED9352 Independent Study
MEED9353 Independent Study
MEED9354 Independent Study
MEED9360 Major Project

Centre for Public Health

The Centre for Public Health provides a forum for education, research and development in public health. It brings together resources within and outside the University of New South Wales concerned with development in this area. The Centre was formed through collaboration between the Schools of Medical Education and Community Medicine in the Faculty of Medicine and the School of Health Services Management, Faculty of Professional Studies. Affiliated with these Schools are major centres including the National Centre in HIV, Epidemiology and Clinical Research, National Drug and Alcohol Research Centre, South Western Area Health Service Division of Public Health and the World Health Organization Regional Training Centre for Health Development.
The Master of Public Health Degree

The Master of Public Health course has been developed in response to changing health needs in the community. The complexity and chronic nature of many diseases and high risk behaviours (e.g., cardiovascular disease, cancer, drug and alcohol abuse, malaria and sexually transmitted diseases) require multi-disciplinary approaches and necessitate collaboration with many agencies outside the health field.

The course combines studies in epidemiology, biostatistics and research with analysis of public health issues, management of public health services, and education for health development. A key feature of the teaching program has been the development of a problem oriented approach, through the requirement and encouragement of students to complete a project which examines contemporary health problems of relevance to their work. The course embraces the skills necessary for successful change through planning, inter-personal communication and persuasion, leadership and management, as well as political and cultural sensitivity to the effects of change.

Core subjects are offered by the Schools of Community Medicine and Medical Education within the Faculty of Medicine, and the School of Health Services Management within the Faculty of Professional Studies. Elective subjects may also be taken in other relevant schools within the University, such as the Department of Safety Science and Department of Food Science and Technology.

2845
Master of Public Health by Research

MPH

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

9045
Master of Public Health by Formal Course Work

MPH

The backgrounds of persons who undertake a Master of Public Health degree course are diverse and their needs varied. In response, the proposed course is generally needs and problem oriented. The programs for students can be, within limits, tailor-made in terms of their disciplinary and workforce backgrounds, and their current and future interests. The provision of independent studies within the three Schools also allows for the provision of highly specific subjects or small projects, given the appropriate teaching or supervisory resources.

Some knowledge and skills areas, and theoretical and conceptual bases are, however, considered necessary as a foundation for public health planning, program operation and evaluation. These are nominated for all students unless previous formal education at an acceptable level can be demonstrated. Students are required to have a suitable first degree and are normally expected to have considerable experience in their proposed field of study within the health or hospital services.

Duration

Full-time: Three academic sessions, two of which must be spent in formal course work within the University.
Part-time: A minimum of four academic sessions of formal work, although the normal expectation would be 5-6 sessions plus one session to complete the major project component.
Externat: The course is available to a limited number of external students working in remote areas. External enrolment must be negotiated with the Course Coordinator. Attendance at a residential school of one week per session is compulsory.

Outline

Students are to undertake 12 two credit point subjects, which may include independent studies, and a major project of 12 credit points, equivalent to 6 subjects, to a total of 36 credit points. (Each credit point is equivalent to one class contact hour per week.)

The total program of each student, while designed to be as flexible as possible in accord with the diverse needs of students, must be approved by the Master of Public Health Degree Management Committee which will be the final arbiter of course content. There are some constraints upon the choice available. For example, unless they can demonstrate adequate background in the nominated areas, students must complete courses in Epidemiology; Quantitative Methods and Management.

Of these 12 subjects:
2 must be chosen from Population and Methodological Studies; 2 must be chosen from Health Issues Studies; 1 must be chosen from Management Studies; and 1 must be chosen from Educational, Social and Development Studies.

The remaining six subjects will normally be chosen from those listed as relevant and available in the Schools of Community Medicine, Medical Education and Health Services Management. No more than six subjects may be completed in one School. Other relevant subjects offered by the three Schools and other Schools at this University, notably in the Food Science and Technology and Safety Science areas, or outside institutions will be considered by the Master of Public Health Management Committee. Two of the six subjects may be Independent Studies, in any of the three Schools (CMED9100, MEED9000, HEAL9921).

A major project of contemporary public health significance is normally undertaken at the workplace or university in the third full-time (or part-time equivalent) session, that is, after completion of twelve subjects. It must be completed by the end of the course, that is, after three academic sessions by full-time students. Provisional topics will be determined by consultation early in the course.
The following subjects are offered at present by the respective schools.

CMED School of Community Medicine
MEED School of Medical Education
HEAL School of Health Services Management

1. Population and Methodological Studies
   HEAL9011 Quantitative Methods and Statistics 1
   HEAL911 Epidemiology
   MEED9127 Research in Education for the Health Professions 1
   HEAL9461 Management Information Systems
   MEED9128 Research in Education for the Health Professions 2
   MEED9108 Program Evaluation and Planned Change
   CMED9514 Biostatistics 1
   CMED9519 Demography
   CMED9500 Epidemiology
   CMED9513 Applied Epidemiology
   CMED9517 Advanced Biostatistics and Statistical Computing
   CMED9518 Case Studies in Epidemiology
   CMED9520 Introductory Statistical Computing and Statistics in Epidemiology
   CMED9614 Genetic Epidemiology

2. Health Issue Studies
   MEED9129 PHC: Issues in Implementation
   MEED9102 Current Approaches to Health Promotion
   MEED9122 Introduction to Primary Health Care
   CMED9600 Disability
   CMED9605 Health in Developing Countries
   CMED9608 Rural Health Studies 1 (External)
   CMED9617 Community Paediatrics
   CMED9621 HIV/AIDS: Challenging and Changing Health Care Systems
   CMED9611 Health for the Elderly
   CMED9604 Alcohol and Drug Related Problems
   CMED9602 Health and Illness Behaviour
   HEAL9421 Public Health
   CMED9606 Women and Health
   CMED9607 Researching Women's Health
   CMED9612 Environmental Health
   CMED9609 Community Genetics
   CMED9610 Community Nutrition
   CMED9615 Primary Health Care (General Practice)
   CMED9620 Health Promotion in Rural Areas
   CMED9622 Prevention

3. Management Studies
   HEAL9381 Policy Studies
   HEAL9111 Quality Assurance
   HEAL9041 Health Care Systems
   HEAL9331 Health Services Law 1
   HEAL9341 Health Services Law 2
   HEAL9711 Management of Organisations
   HEAL9701 Management of Work
   HEAL9741 Management of Health Services
   HEAL9701 Current Issues in Health Care Finance
   HEAL9351 Health Economics 1
   MEED9104 Organisation and Management
   MEED9111 Consultation Process
   MEED9112 Management of Human Resources in Health

4. Educational, Social and Developmental Studies
   MEED9126 Self-Directed Learning
   MEED9105 Educational Planning
   MEED9106 Teaching Skills
   MEED9107 Assessment of Students
   MEED9101 Learning and Teaching
   MEED9013 Influencing Health Beliefs and Health Behaviour
   MEED9103 Instructional Design
   MEED9109 Understanding and Working in Communities
   MEED9102 Education Processes in Small Groups
   MEED9125 Planning, Conducting and Evaluating Educational Workshops
   MEED9113 Evaluation of Instructors
   MEED9123 Production of Audio-Visual Material
   CMED9618 Ethics in Medicine and Community Health
   HEAL9811 Sociology, Ethics and Health
   CMED9603 Communication and Writing in Health
   CMED9613 Health and Public Policy
   MEED9014 Communication and Educational Skills for Community Health Practitioners

School of Paediatrics

5500 Diploma in Paediatrics

DipPaed

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

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

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

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

A stream exists in this program for students undertaking the Master of Community Health (9020) or the Master of Public Health (9045).
Master of Paediatrics

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

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

Year 2
PAED9301 Community Pediatrics
PAED9302 Clinical Paediatric Experience 3

School of Physiology and Pharmacology

The School offers programs of study leading to the awards of the degrees of Master or Graduate Diploma of Sports Medicine (in association with IPACE-Unisearch; Schools of Anatomy and of Community Medicine, Faculty of Medicine; School of Sport and Leisure Studies, Faculty of Professional Studies) by formal part-time course work delivered by distance education.

Master of Sports Medicine

M Sp Med

Graduate Diploma of Sports Medicine

Grad Dip Sp Med

The courses aim to equip medical practitioners with a rigorous understanding of the theory and practice of sports medicine in meeting the medical demands of people engaged in individual or team performance-related sporting activities and with the medical demands of people involved in health-related physical activities for the purposes of primary, secondary or tertiary prevention of disease processes.

The degree of Master of Sports Medicine will be awarded after satisfactory completion of a program of advanced study of subjects which totals 30 credit points of which 24 credit points will be from eight subjects (six compulsory, two elective) each of three credit points together with completion of a Sports Medicine Practicum consisting of a two-week residential period of clinical activities and clinical examinations. Satisfactory completion is also required of a Major Project Report (six credit points) based on six months of research or clinical case studies in sports medicine.

The Graduate Diploma will be awarded after satisfactory completion of a program of advanced study of subjects which total 24 credit points from eight subjects (five compulsory, three elective) each of three credit points together with completion of a Sports Medicine Practicum consisting of a two-week residential period of clinical activities and clinical examinations.

Compulsory subjects
PHPH5413/5513 Sports Injuries 1
PHPH5423/5523 Sports Injuries II
PHPH5433/5533 Medical Applications of Exercise I
PHPH5443/5543 Medical Applications of Exercise II
PHPH5414/5514 Sports Science
PHPH5424 Research Methods (only for M Sp Med)
PHPH5445 Major Project (only for M Sp Med)

Elective Subjects:
PHPH5434/5534 Sports Injuries III
PHPH5444/5544 Medical Applications of Exercise III
PHPH5415/5515 Sports Psychology
PHPH5425/5525 Sports Pharmacology
PHPH5435/5535 Sports Nutrition

Further Activities
Sports Medicine Practicum
School of Psychiatry

9030
Master of Psychotherapy

MPsychotherapy
The course is designed to further the skills of practising mental health clinicians (psychiatrists, senior psychiatric trainees, clinical psychologists) in psychotherapy, particularly cognitive behavioural psychotherapy. The masters degree program is a part-time course of two years. This course does not supplant the more comprehensive two year full-time degree (MPsychoClin) offered by the School of Psychology. Candidates are required to complete the following program:

Nominated Subjects

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

Year 2
PSCY9205  Cognitive Behavioural Psychotherapy 2
PSCY9206  Project Report

9031
Master of Psychological Medicine

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

Nominated Subjects

Year 1
Session 1
PSCY9106  Psychological Medicine 1
Session 2
PSCY9107  Psychological Medicine 2

Year 2
Session 1
PSCY9208  Psychological Medicine 3
Session 2
PSCY9209  Psychological Medicine 4
Sessions 1 and 2
PSCY9210  Project Report
Subject Descriptions

Anatomy

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

ANAT6151
Introductory Functional Anatomy
Staff Contact: Dr E. Tancred

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

Community Medicine

Group A: Compulsory Nominated Subjects

CMED9513
Applied Epidemiology
Staff Contact: Dr L. Lai
C2
Prerequisite: CMED9500 Epidemiology

This subject builds on the Session 1 Epidemiology subject, 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.

CMED9514
Biostatistics 1
Staff Contact: Dr L. Lai
C2

Introduces the use of statistics in health research and practice, descriptive statistics, sampling, probability distributions, statistical inference, hypothesis testing and confidence intervals. Tests of significance based on the t distribution, and upon analyses of counts (proportions, chi-squared). The measures of association and correlation will be covered. The use of demographic and morbidity statistics will be discussed.

CMED9500
Epidemiology
Staff Contact: Dr L. Lai
C2

Introduction to the principles of epidemiology, defining populations at risk, principles of surveillance, hierarchy of study designs, measures of disease occurrence and association, types of bias including confounding, principles of cross sectional, case control and cohort studies and randomized trials; assessing bias, validity and evidence for causality in published research.

CMED9530
Organisation and Delivery of Health Services
Staff Contact: Prof F. Ehrlich
C2

Primary medical care, hospital-based provision, community health services, geriatric assessment teams, institutional care, ethical aspects of care, legal aspects of care, testamentary capacity and 'informed' consent, guardianship board, terminal care, team concepts and team leadership, funding of care - State and Commonwealth responsibilities.

Group B: Nominated Subjects

CMED9517
Biostatistics 2
Staff Contact: Dr L. Lai
C2
Prerequisite: CMED9514 Biostatistics 1

Statistical design, analysis and reporting; a selection of topics from clinical trials and other controlled studies, nonexperimental studies, rates and proportions, multiway tables, analysis of covariance and repeated measures, multiple regression and other multivariate analysis, life tables and survival analysis. Students will analyse real data sets, including their own if desired, using SPSS software. Thorough individual instruction in the use of computers will be given in the laboratory.

CMED9518
Case Studies in Epidemiology
Staff Contact: Dr L. Lai
C2

Epidemiology has made a substantial contribution to public health policy and practice in a number of areas. The course will consider four areas of health (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: Dr L. Lai
C2

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

CMED9520
Introductory Statistical Computing and Statistics in Epidemiology
Staff Contact: Dr L. Lai
C2

Introduction to data entry, data transformations, and simple analyses using an IBM compatible PC. The statistical
The procedures taught in introductory biostatistics will be applied to real data entered into an appropriate data base. Statistical methods in epidemiology will examine the statistical properties of relative risk and odds ratios, adjustment of data without the use of multivariate models, sample size estimation, direct and indirect standardization of rates, and a descriptive introduction to the statistical concepts used in published epidemiological research.

CMED9531
Gerontology
Staff Contact: Prof F. Ehrlich
C2
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.

CMED9532
Clinical Geriatrics
Staff Contact: Prof F. Ehrlich
C2

CMED9533
Psychogeriatrics and Pharmacology
Staff Contact: Prof F. Ehrlich
C2
Memory disorders, depression in the elderly, personality and behaviour disorders, forms of a psychogeriatric service, principles of treatment, compulsory treatment, professional attitudes.
Pharmacology of ageing: pharmacokinetics, pharmacodynamics. Adverse drug reactions, practical points for medications, compliance, management of the patient with polypharmacy.

CMED9534
Rehabilitation and Health Promotion
Staff Contact: Prof F. Ehrlich
C2
Principles of rehabilitation. Rehabilitation after acute illness; rehabilitation of the elderly with rheumatological and orthopaedic disorders, stroke survivors and amputees.
Geriatric assessment, health maintenance, education, retirement planning, audit of quality of care, housing options, income maintenance and prevention of poverty, achieving successful ageing.

CMED9535
Project
Staff Contact: Prof F. Ehrlich
C10
Candidates are required to complete a project on an approved topic over a period of 6 months. To be eligible to undertake the project candidates must obtain the required credit points and have been successful at an oral long case examination.

CMED9536
Clinical Experience
Staff Contact: Prof F. Ehrlich
C10
Candidates must complete 140 hours of supervised Clinical work at Geriatric Units of approved Teaching hospitals affiliated with UNSW.

Group C: Academic Electives

CMED9100
Independent Studies
Staff Contact: Dr L. Lai
C2
Independent studies are designed to provide opportunities for candidates to pursue interests and areas not adequately addressed in existing subjects. They are recommended particularly for candidates who wish to explore specific community health problems within their own communities or areas.

CMED9600
Disability
Staff Contact: Dr L. Lai
C2
Epidemiology of disabling physical and mental conditions; the nature of disability and handicap (including developmental disability); perceptions of handicap; disabled persons' consumer movement and organization; sociology of disability; social inequality and disability; rehabilitation; community and specialist rehabilitation services; relevant legislation, government services, special needs of disabled persons health accommodation and the physical environment, transport, work, income support, legal rights and public policy.

CMED9611
Health of the Elderly
Staff Contact: Dr L. Lai
C2
Demography of ageing; epidemiology of health, illness and disability in an ageing population; 'aged persons' perspectives; gerontology - biological, sociological and psychological perspectives; problems and special needs of an ageing population; health maintenance; health policy for an ageing population; health services; institutional care; community and domiciliary services; non-government organizations; poverty; community attitudes; accommodation; income support; social and ethical issues.

CMED9602
Health and Illness Behaviour
Staff Contact: Dr L. Lai
C2
Self-care, personal health action and help-seeking behaviour; attitudes and beliefs about health and illness; media influences and sources of health advice; the media and public health; coping with illness, stress, anxiety, loss or bereavement; the sick role; expectations of health care; counselling techniques; doctor-patient communication; psychological, social and ethnic factors influencing health behaviour; health education and promotion; community mental health; rehabilitation; concepts and strategies.
CMED9603
Communications and Writing in Health
Staff Contact: Dr L. Lai
C2
Writing and preparation for the media; preparation of material for health education and promotion, including audiovisual material; preparation of scientific papers, reports and theses; practical skills in planning and writing articles: logical organization, clear and concise scientific prose; presentation of data and overall layout.

CMED9604
Alcohol and Drug Related Problems
Staff Contact: Dr L. Lai
C2
Concepts of drug dependence, including pharmacological aspects; management of these problems in primary care; rehabilitation programs, smoking cessation; weight control; social and psychological factors and their impact on the family; drug problems and their impact on the community; public health aspects; population indices and surveillance; control programs; legislation; law enforcement; medical and legal aspects of drug dependence.

CMED9605
Health in Developing Countries
Staff Contact: Dr L. Lai
C2
Economic, demographic and epidemiological aspects; communicable diseases, for example, diarrhoea and parasitism, chronic diseases including mental health in the Third World context; maternal and child health; family planning; nutrition, and food and nutrition policy; breast feeding promotion; immunisation; water supply and environmental sanitation; organization of health services; primary health care; health personnel training; health education; pharmaceutical problems; role of international and non-governmental agencies; self-reliance.

CMED9606
Women and Health
Staff Contact: Dr L. Lai
C2
Current issues relevant to the health of women, both consumer and provider perspectives. Common health risks facing women. Special needs in health and health care for particular populations of women. Traditional role of women as health carers, and the impact this has on health and health services. Short lectures, group discussions and student presentations. Assessment is a combination of marks given in written tutorial papers, end of session essay and group facilitation and class participation.

CMED9609
Community Genetics
Staff Contact: Dr L. Lai
C2
Brief discussion of essentials of human genetics and new development; role of genetics in community health; individuals at risk; genetic disorders including congenital, chromosomal and single-gene defects; their causes and distribution in different populations; health services comprising genetic counselling, screening, carrier detection, pre-symptomatic diagnosis, prenatal diagnosis, and laboratory investigation, and their planning and funding; support groups as related to types of genetic disorder; basic training of genetics in medicine; education and prevention; social, moral and ethical issues involved in the provision of genetic services.

CMED9607
Researching Womens Health
Staff Contact: Dr L. Lai
C2
Examines the socio-cultural aspects of women's health. Emphasis will be on reading and critically examining recent social, behavioural science, public health and primary care literature. Case studies will be used to look at determinants of women's health, woman and health care systems, promoting women's health, and woman and disability.

CMED9608
Rural Health Studies 1
Staff Contact: Dr L. Lai
C2
Note/s: External course, 4 tele-conferences, one 2-day workshop mid-term.
Examine roles, needs, and particular health and welfare issues of rural general practitioner services; explore methods for professional development of rural GPs; study public health issues of particular relevance to rural general practice; study data collection and analysis to help identify rural health problems, their management and prevention; plan and evaluate the promotion of health, and prevention of disease through individual and community health education programs in rural communities.

CMED9610
Community Nutrition
Staff Contact: Dr L. Lai
C2
Introduction to nutrition and health; increasing interest in nutrition by population in general, epidemiological evidence of nutrition-related diseases and the increasing cost of treating these diseases, and common nutrition-related health disorders in the Australian community; various nutritional assessment techniques; nutrition information versus misinformation; location and utilisation of nutrition resources; recommendations about nutrition by instrumentality such as the Health For All Taskforce and the Better Health Commission.

CMED9612
Environmental Health
Staff Contact: Dr L. Lai
C2
To introduce the principles of epidemiology, particularly in reference to environmental risk factors of disease and in reference to such principles as incidence and prevalence, aetiology and risk factors, epidemiology and endemics, and primary, secondary and tertiary prevention of disease. In particular, it deals with environment and disease, radiation, chemical, hazards, air and water pollution, biological hazards, urban environment, ecology, ecosystems and interdependence and how these factors affect health, public health issues related to sustainable development.
CMED9613
Health and Public Policy
Staff Contact: Dr L. Lai
C2
The subject deals with 'health' debate over time, elements of health policy, health outcomes and international comparisons. Health in the Federal System, systematic development of health outcomes, stakeholders, program cycle, work of a Minister for Health, discussion of means and ends, Cabinet Government and health policy, concepts and strategies.

CMED9614
Genetic Epidemiology
Staff Contact: Dr L. Lai
C2
Introduction to the study of the interaction of environmental and genetic determinants of diseases; 'simple' Mendelian, polygenic and multifactorial models of disease causation and corresponding patterns of distribution; estimation of genetic parameters; methods of discriminating between models, including recognition of genetic heterogeneity, linkage analysis, segregation analysis, path analysis, the design and interpretation of twin and family studies, 'cohort of genealogies' technique; calculation of risks; effects of genetic intervention; progress of research into diseases such as diabetes and schizophrenia; computing techniques.

CMED9615
Primary Health Care
Staff Contact: Dr L. Lai
C2
The subject provides an overview of primary care in Australia and the application of the PHC approach to Australia and other developed countries. Topics to be covered include, primary care and PHC in Australia, primary medical care and family practice, primary nursing care and generalist community nursing, integration of Community Health Services, healthy cities, self help groups and self care, health promotion, surveillance/monitoring in primary care, advocacy/community development, aboriginal health, community participation.

CMED9617
Community Paediatrics
Staff Contact: A/Prof J. Gupta
C2
This subject is offered to students with special interest in issues pertaining to child health. The subject content will include psychosocial development, medical and legal issues of child care, and ambulatory problems of children. Disease prevention and the epidemiological aspects of Child Health will be emphasized. The objectives of this subject are to provide students of community and public health with the knowledge and skills required for future work in child related programs.

CMED9618
Ethics in Medicine and Community Health
Staff Contact: Dr L. Lai
C2
Principles and theories of medical ethics are examined in relation to current ethical issues in medicine and community health. Topics include ethical issues in: artificial birthing techniques; resource allocation; termination of life sustaining treatment; drug and alcohol provision and treatment; human experimentation and epidemiological research; aboriginal health care research and delivery; and accountability of health professionals.

CMED9619
Community Paediatrics
Staff Contact: Prof J. Gupta
C2
This subject is offered in session 2 as an elective (2 credit units) to students undertaking the courses of Master of Community Health or Master of Public Health. The objectives of this subject are to provide students with the knowledge and skills required when dealing with child health related programs. The subject content includes, physical, neurological and psychosocial development, immunisation, medical, social and legal issues of child care, epidemiological aspects of child health, diseases prevention and ambulatory problems of children. These students attend lectures (20 hours) and carry out assignments to develop programs suitable for application to their work.

CMED9620
Health Promotion in Rural Communities
Staff Contact: Dr L. Lai
C2
Note/s: External Course, 4 tele-conferences and one 2 day workshop mid-term
Basic concepts of health promotion as they apply to rural communities; recognizing trends in rural communities which affect the health of individuals and the community; understanding barriers to the adoption of preventive action; understanding how effective health promotion and disease prevention strategies are selected, implemented and assessed.

CMED9621
HIV/AIDS: Challenging and Changing Health Care Systems
Staff Contact: Dr L. Lai
C2
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 recognized experts in the field, and will have a particular focus on HIV/AIDS in Australia and the Asia/Pacific region.

CMED9622
Prevention
Staff Contact: Dr L. Lai
C2
Rationale for disease prevention; Historical development of prevention; Scope of prevention; Medical approach (primary prevention, tertiary prevention); Lifestyle approach (Better Health Commission, Life style stroking and the media); New Public Health (Alma Ata, Ottawa Charter, Health for all Australians). Examples of each within Community Health Services in the Eastern Sydney Area Health Service.
CMED9623
Health Informatics in Primary Care
Staff Contact: Dr L. Lai
C2
An overview of information and communication systems and technology in the health system; principles and standards for health information systems in primary care; skills in analysing and evaluating health information systems; practical experience with information systems for primary care; application of health informatics in a variety of primary care settings (including general practice and community health).

MEED9014
Communication and Educational Skills for Community Health Workers
Staff Contact: Ms J. Ritchie
C2 S2 HPW2
Emphasis on the specific communication and education skills required by health professionals working in community settings. Application of small group teaching and experiential learning approaches including interactive experiences, simulations and opportunistic teaching methods. Communication skills used in conducting community projects.

MEED9101
Learning and Teaching
Staff Contact: A/Prof R. Bandaranayake
C2 S1 HPW2
Focuses on the conditions which are necessary for learning and the responsibilities these imply for teaching. Stages of the process are outlined and the important factors in learning are developed within this framework. Problem-based, involving participation in workshops organized around common problems in teaching and learning. Integrates with MEED9013.

MEED9102
Educational Process in Small Groups
Staff Contact: Mr G. Roberts
C2 S1 HPW2
How people operate as members and leaders of groups; conditions underlying effective group work in educational planning, teaching and learning, and the provision of health care; basic concepts of group structure. Stress on experiential learning, observation of group process, improving skills in facilitating group learning and designing appropriate learning activities.

MEED9103
Instructional Design
Staff Contact: Ms L. Bloomfield
C2 S1 HPW2
Application of skills and knowledge gained in MEED9101 and the development of the ability to design instruction which is optimal for various learning objectives and conditions. Critical variables in instruction are identified and discussed in relation to their implications for design of instruction. A series of workshops dealing with the design of instruction for various learning environments in the health field.

MEED9104
Organisation and Management for Health Personnel Education
Staff Contact: Mr G. Roberts
C2 S1 HPW2
Students critically examine existing organizational patterns relevant to health personnel education. Emphasis is placed on the participants' experiences as members of organizations and the effect of organizations on their individual performance. Description and analysis of participants' own organizations to identify strengths, operational problems and developmental possibilities with emphasis on managerial roles.
MEED9105
Educational Planning
Staff Contact: A/Prof R. Bandaranayake
C2 S2 HPW2
Builds on the competency based model of instructional development introduced in MEED9103 but looks at alternative approaches to curriculum planning; considers the factors leading to developments in curricula for the health professions, and the methods by which changes have been introduced. Emphasis on a number of institutional case studies from different health professions; the processes used in making decisions between curriculum options for new courses and in introducing changes into existing courses.

MEED9106
Teaching Skills
Staff Contact: Ms L. Bloomfield
C2 S1 HPW2
The practical aspects of teaching methods. Problems experienced by teachers in their own situations. Certain theories and principles of learning as they apply to the various teaching methods studied. Emphasis is on microteaching (reinforcement, questioning, explaining).

MEED9107
Assessment of Students
Staff Contact: A/Prof R. Bandaranayake
C2 S2 HPW2
The process, scope and purpose of educational evaluation. The place of student assessment within the curriculum and the concept of measurement and its requisites, leading to a review of the different types of assessment commonly used by participants to assess student learning in all its domains. The practical aspects of the designing, administration and scoring of such assessments, and attempts to identify ways of improving such procedures. The assessment of clinical performance on prescribed tasks, on tasks involving judgement, and in clinical practice. The practical aspects of the designing, administration and scoring of such assessments, and attempts to identify ways of improving such procedures.

MEED9108
Program Evaluation and Planned Change
Staff Contact: A/Prof A. Rollem
C2 S2 HPW2
Designed to help participants develop skills in planning, conduct and evaluation of educational programs. Includes: preparation of a detailed proposal for evaluation of a program; various decisions and activities undertaken in program evaluation; processes of innovation and change.

MEED9109
Project
Staff Contact: Ms J. Ritchie
Provides an opportunity for the candidate to apply coursework learning through focusing on an area of health personnel education relevant to the candidate's professional interests and development and to the furthering of health personnel education.

MEED9111
The Consultation Process
Staff Contact: Mr G. Roberts
C2 S2 HPW2
Recommended Prerequisite: MEED9104 or equivalent
Corequisites: MEED9108, MEED9113, MEED9112
Note/s: An Academic Elective.

The subject is designed to introduce concepts and practical approaches used by consultants in the development of organizations, programs, teams and individuals. The subject will focus on the internal process of change as well as on 'third party' interventions.

MEED9112
Managing Human Resources in Health
Staff Contact: Mr G. Roberts
C2 S2 HPW2
Recommended Prerequisite: MEED9104 or equivalent
Recommended Corequisite: MEED9108

The subject is designed to introduce concepts and practices pertaining to the management of human resources. Particular attention will be given to the integration of human and other resources in management and planning. The influence of social values and beliefs on the way that human resources are managed will also be considered.

MEED9113
Evaluation of Instructors
Staff Contact: Mr G. Roberts
C2 S2 HPW2
Note/s: An Academic Elective.

This seminar pertains to concepts, research and development in the evaluation of instructors. Emphasis on the methods by which evaluative feedback could be provided and used for the purpose of improvement of instruction. It is expected that candidates would acquire skills in the design and use of evaluation instruments which are effective in improving instruction.

MEED9116
Trends in Health Sciences Curricula
Staff Contact: A/Prof R. Bandaranayake
C1 S1 HPW1

Supplements MEED9105 Educational Planning. Trends in health sciences curricula such as integrated curricula, emphasis on community medicine, introduction of social and behavioural sciences, elective programs, early patient contact, nutrition education, problem-solving approaches and accelerated programs. Particular trends studied depend on interests of participants. Literature review in a circumscribed area, dealing with the nature of the trend, factors which determine it, its advantages and disadvantages, and pitfalls in implementation. Discussion of specific case studies and personal experience.

MEED9121
Large Group Teaching
Staff Contact: A/Prof R. Bandaranayake
C2 S2 HPW2

The process of explaining considered central to large group teaching; analysis of this process, dealing with the qualities and components of effective explaining. The types of lectures ranging from didactic to inductive, and the various ways in which lectures are structured, leading to an examination of the relationship between lecturing and learning. Strategies for improvement of lectures, and alternatives to lectures.
MEED9122
Primary Health Care
Staff Contact: Ms J. Ritchie
C2 S2 HPW2
The concept of primary health care and its emergence as the priority health care approach in developing countries. Emphasis on the training implications of primary health care programs together with different definitions of the concept including the role of primary health care in social and economic development, and its relationship to existing health care systems.

MEED9123
Production of Audio Visual Materials
Staff Contact: Ms L. Bloomfield
C2 S1 HPW2
Note/s: An Academic Elective.
The use of audio visual materials and equipment; production of software (charts, transparencies, slides, film, videotape and audiotape); principles guiding the selection of teaching aids. A major requirement for assessment is the selection and preparation of instructional media appropriate to a specific teaching situation in the participant's base institution.

MEED9124
Clinical Teaching
Staff Contact: Ms J. Ritchie
C1 S1 HPW1
Drawing upon real life clinical practice and observing teaching sessions of their own, their peers and others, participants have the opportunity to explore the nature of clinical teaching and learning in selected programs, and to identify ways of improving teaching skills and maximising students' learning. Research in clinical teaching and its relation both to educational theory and to current practice.

MEED9125
Planning, Conducting and Evaluating Educational Workshops
Staff Contact: A/Prof R. Bandaranayake
C1 S1 HPW1
In an attempt to develop their skills in all aspects of conducting workshops, participants are guided to formulate a plan for a workshop for their colleagues in an important educational area, with opportunity to practise various techniques for enhancing active participation, and subsequently to conduct the workshop, evaluate its process and outcomes, and report on it.

MEED9126
Self Directed Learning and Self Instruction
Staff Contact: Ms L. Bloomfield
C2 S2 HPW2
Note/s: An Academic Elective.
This course examines options which are available for the teacher to assist students to develop skills in self education. Requires students to undertake self directed study and to negotiate a learning contract with the instructor. Topics may include: adapting instruction to individual differences, principles and practices of self instruction, applying self directed learning in traditional courses, and contexts for informal learning such as continuing education, in-service training and distance education.

MEED9127
Research in Education for the Health Professions 1
Staff Contact: Dr M. Stiernborg
C2 S1 HPW2
Enables participants to become aware of 'ways of knowing', in general, and of the scientific method in particular. Different methods of educational research examined in depth so that the method(s) most appropriate to given research problems can be selected. Participants develop skills in evaluating research papers exemplifying the different methods.

MEED9128
Research in Education for the Health Professions 2
Staff Contact: Dr M. Stiernborg
C2 S2 HPW2
Prerequisite: MEED9127 or equivalent
Note/s: An Academic Elective.
Raises awareness of current research interests in education for each of the health professions from which participants come and of the problems encountered in conducting an educational research project. Participants are expected to plan, conduct and report a pilot project in education.

MEED9129
Primary Health Care: Issues in Implementation
Staff Contact: Ms J. Ritchie
C2 S2 HPW2
Prerequisite: MEED9122 Primary Health Care or evidence of substantial prior experience in primary health care work
Note/s: An Academic Elective.
This subject guides participants through a detailed analysis of both the theory and the practice of implementing Primary Health Care programs. Problems and issues encountered in implementation are examined and practical solutions explored. The course is designed for health professionals who have had some prior exposure to the concepts and practice of Primary Health Care, and draws upon relevant case studies for the analysis.

Master of Clinical Education
Diploma of Clinical Education

MEED9302
Learning in Small Groups
Staff Contact: Mr G. Roberts
C2 S1, S2 or S3
The course covers the processes of learning in small groups, group formation and changing roles and relationships within groups, diagnosis and management of problems and conflict within the group, effectiveness in handling tasks and making effective decisions, team building, support, leadership of working groups, innovation by groups, assessment of group performance. Assignments include study of the development of the group, and the emergence of effective leadership.

MEED9303
Clinical Practice as a Discipline
Staff Contact: Mr P. Godwin
C1 S1, S2 or SC
This course explores the nature professional expertise within clinical practice as a skilled discipline within the streams of general and specialist practice and within the
nursing profession. Subject matter includes the varieties of working knowledge (applied knowledge, strategic knowledge, intuitive knowledge, local, situational knowledge, predictive and decision making knowledge, people management knowledge and judgment), of skills in managing logical processes and skills in managing people and procedures. The course also analyses the profession's philosophy, the professional's tasks, roles and responsibilities, and the perspectives and expectations within the health system and community. Assignments are expected to contribute to the understanding and development of the discipline in each health profession.

**MEED9304**  
**Learning Clinical Reasoning**  
*Staff Contact: Mr P. Godwin*  
*C3 S1, S2 or S3*

The medical stream covers teaching of the steps in the clinical process, inductive and deductive strategies, data collection and its flaws, the reliability of clinical evidence, intuition and clinical memory, investigation and sufficiency of evidence, strength of clinical and investigational evidence, interpretation and misinterpretation, logical processes in clinical inference and plausibility of diagnosis, and the utility of expert systems and computer-aided diagnosis. For the nursing stream the course diverges to cover the reasoning called upon within different clinical units. Assignments include the study of clinical reasoning in the candidate's setting.

**MEED9305**  
**Learning from Experience**  
*Staff Contact: Mr P. Godwin*  
*C1 S1, S2 or S3*

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

**MEED9306**  
**Supervision, Mentoring and Feedback**  
*Staff Contact: Mr P. Godwin*  
*C2 S1, S2 or S3*

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

**MEED9307**  
**Exploring and Managing Ethical and Moral Dilemmas**  
*Staff Contact: Mr P. Godwin*  
*C2 S1, S2 or S3*

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

**MEED9308**  
**Learning Clinical Decision Making**  
*Staff Contact: Mr P. Godwin*  
*C2 S1, S2 or S3*

The medical stream deals with quantitative and qualitative aspects of decision making, management options, ambiguity and sufficiency of evidence at the test-treatment threshold, identification of possible outcomes, calculation of probabilities and utilities for each outcome, structuring with decision analysis, elicitation of patients' preferences, configuration of trade-offs and sensitivity analysis, influences operating in the context and in the personal psychology of doctor and patient, defensibility of decisions, and judgment in making choices under uncertainty. The nursing stream diverges at many points to cover the particular decisions required of the clinical nurse. Assignments include the analysis of a number of decision processes in the candidate's setting.

**MEED9309**  
**Assessment of Clinical Performance**  
*Staff Contact: Mr P. Godwin*  
*C2 S1, S2 or S3*

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

**MEED9310**  
**Evaluation of Clinical Teaching**  
*Staff Contact: Mr P. Godwin*  
*C2 S1, S2 or S3*

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

**MEED9311**  
**Patient and Family Education**  
*Staff Contact: Mr P. Godwin*  
*C2 S1, S2 or S3*

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

MEED9312
Research Into Clinical Education
Staff Contact: Mr P. Godwin
C2 S1, S2 or S3
This course introduces clinical educators to the research methods appropriate for studying complex, multifactorial, interactive, dynamic situations in which few variables can be controlled, either ethically or practically. Critical analysis as consumers of clinical research papers and the use of basic statistical concepts (parametric and non-parametric) and methods will be included. Candidates will plan, undertake and evaluate a research project into clinical education as their principal assignment.

MEED9313
Planning Education Programs
Staff Contact: Mr P. Godwin
C2 S1, S2 or S3
This course deals with the planning, implementation and evaluation of graduate and continuing educational programs, including educational workshops, beginning with identification and clarification of needs, helping adult learners with self-diagnosis of defects, designing instruction and choosing methods of presentation, linking new scientific ideas with the clinical working knowledge and strategies of practitioners, evaluating the effectiveness of programs, and undertaking research into continuing education. Assignments include the planning of an education program appropriate to the candidate's area.

MEED9314
The Ward (or Office) as a Social and Learning Environment
Staff Contact: Mr P. Godwin
C2 S1, S2 or S3
This course uses the clinical setting of the ward, or the office, or the clinic as the unit of study of the formal and informal communication and management processes, professional role definition and socialisation into sub-cultural belief patterns, sharing of decision making, expectations and stresses, coping strategies and stress management, analysis of social pathology, relation between task and maintenance functions and the resolution of conflict, staff job satisfaction and turnover, and effectiveness for learning. Assignments include a report on the candidate's working environment.

MEED9315
Clinical Teaching
Staff Contact: Mr P. Godwin
C3 S1, S2 or S3
The course includes the planning and administration of clinical teaching programs, preparation of the learners including assessment of the learner's readiness, learning of manual skills on simulated patients, management of the learning environment, briefing before patient encounter, demonstration of skills, perceptual skills in data collection, debriefing and reflection on the clinical encounter, and forward planning of reading and further practice. The course also deals with the micro-skills of listening, questioning, probing and challenging, demonstrating, and involving the patient and other staff. Assignments include the study of the candidate's clinical teaching and the study and practice of clinical micro-skills.

MEED9316
Learning Consulting Skills
Staff Contact: Mr P. Godwin
C3 S1, S2 or S3
The medical stream deals with the identification and learning of consulting skills in communicating with patients, families and colleagues, in clarifying illness problems, in acquiring accurate information, interpreting evidence and diagnosing disease, in handling ambiguity and uncertainty, and in negotiating trade-offs among management options. Differences between generalist and specialist tasks and contexts will be explored. Consulting skills in the nursing stream parallel these, but with differing responsibilities in assessment and patient care. Assignments include study of communication and management skills in the candidate's setting.

MEED9317
Clinicians as Managers
Staff Contact: Mr G. Roberts
C2 S1, S2 or S3
This subject focuses on the role of clinicians in the management of health and education programs. It aims to encourage review of organizational and management issues which influence the performance of clinical units. The material includes identification of the functions of management, the typical challenges faced by clinicians as managers, their contribution to leadership and team development, their role in planning, evaluation and their management of change. The assignments in this subject will require a step-by-step review of the way activities and programs are managed and strategies to improve the effectiveness and efficiency of the organizational unit under study. Participants will be required to reflect on their performance as managers in tasks such as setting goals, organizing, delegating, supervising and supporting staff development.

MEED9351
Independent Study
Staff Contact: Mr P. Godwin
C1 S1, S2 or S3

MEED9352
Independent Study
Staff Contact: Mr P. Godwin
C2 S1, S2 or S3

MEED9353
Independent Study
Staff Contact: Mr P. Godwin
C3 S1, S2 or S3

MEED9354
Independent Study
Staff Contact: Mr P. Godwin
C4 S1, S2 or S3
Candidates may contract to undertake an Independent Study on a particular field of interest or clinical educational research. The number of credit points may range from one to four, according to the size of the independent study.
Elective Studies

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

Supervision

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

Paediatrics

Master of Paediatrics
Diploma of Paediatrics

PAED9100
General Paediatrics and Child Health
Staff Contact: A/Prof J. Gupta
Growth and development. Systemic diseases in childhood. Prevention and early detection. Community services available for the care of children with various disorders. Emphasis is placed on the understanding of principles, especially physiological principles. Prenatal development and prenatal and perinatal experiences, which affect the growing foetus and infant. Necessary professional supervised experience is obtained by clinical attachment to appropriate hospitals. Candidates are given increasing professional responsibility. There are lectures, seminars, discussion groups and demonstrations on manikins. Family dynamics and family interactions in the causation of developmental, behavioural and emotional problems in children. Students without adequate clinical experience have a clinical attachment in paediatric psychiatry during the first two years of training. There are lectures, seminars, case conferences and assignments.

PAED9104
Clinical and Technical Skills
Staff Contact: A/Prof J. Gupta
Taking of medical histories, physical examination and technical procedures. Supervised professional attachments provide opportunities for learning these skills. Candidates obtain experience in diagnostic thinking and planning management. Some of the teaching is on an individual basis and some in groups.

PAED9105
Clinical Paediatric Experience 1
Staff Contact: A/Prof J. Gupta
Candidates are required to gain twelve months clinical experience in an approved children's hospital rotating through various specialties including neo-natal. (Exemptions may be granted if supported by appropriate references.)

PAED9201
General Paediatrics 2
Staff Contact: A/Prof J. Gupta
Includes medical emergencies, chronic diseases and team work, especially work with health professionals other than medical graduates. As well as lectures, seminars, demonstrations and discussion groups there are supervised professional experiences involving increasing professional responsibility.

PAED9202
Organisation of Health Services
Staff Contact: A/Prof J. Gupta
Candidates study the resources available in the community to help children with a variety of disabilities.

PAED9203
Medical Statistics & Epidemiology
Staff Contact: A/Prof J. Gupta
Learning in the undergraduate course is consolidated and candidates analyse material presented to them, particularly material encountered in journal reading.

PAED9204
Clinical Paediatric Experience 2
Staff Contact: A/Prof J. Gupta
As for PAED9105

PAED9301
Community Paediatrics
Staff Contact: A/Prof J. Gupta
Evaluation and care of children in the community especially children with physical and mental handicaps. Intends to embrace problems not frequently encountered in hospitals. May include attachments to centres outside the metropolitan area of Sydney.

PAED9302
Clinical Paediatric Experience 3
Staff Contact: A/Prof J. Gupta
Candidates are required to gain professional experience of a community nature outside of the general hospital environment. Because of the wide variety of appropriate appointments, candidates are advised to discuss proposed activities with the course co-ordinator.

Pathology

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

PATH9003
Principles of Disease Processes
Staff Contact: A/Prof C.R. Howlett
C3 S1 L3
Prerequisites: PHPH2112 or equivalent, ANAT2111 or equivalent
The reaction of cells to injury, the inflammatory reaction; necrosisvascular changes and infarction; reparative processes; fracture healing; neoplasia; reaction to implants; specific processes requiring prosthetic assistance.
Physiology and Pharmacology

PHPH 5413/5513
Sports Injuries I
Staff Contact: Dr D. Garlick
Note/s: A compulsory subject

Principles and procedures are described for the initial evaluation and management of injuries on the sporting field.

General principles of anatomy are applied to tissues in general and bone and muscle in particular. Pathophysiological processes are described in relation to connective tissue, ligaments and tendons, muscle.

The anatomy of the upper limb is described systematically. The history, diagnosis and management are discussed in relation to injuries to the shoulder, arm, elbow, forearm, wrist and hand.

PHPH5423/5523
Sports Injuries II
Staff Contact: Dr D. Garlick
Note/s: A compulsory subject

Systematic anatomy is discussed for the head, neck and trunk. The history, diagnosis and management is dealt with in relation to injuries to the head (including ears, eyes, nose and face), neck, spine, chest and abdomen.

Systematic anatomy is described for the pelvis and lower limb. The history, diagnosis and management are discussed in relation to injuries to the pelvis, thigh, knee, leg, ankle and foot.

PHPH5433/5533
Medical Applications of Exercise I
Staff Contact: Dr D. Garlick
Note/s: A compulsory subject

The anatomy of the cardiovascular system is described. Cardiovascular responses are discussed in relation to strength exercise, anaerobic exercise and aerobic exercise in the sedentary and fit male adult and female adult, in the young and old person, in the pregnant woman. The use of aerobic exercise is considered applied to the prevention and management of cardiovascular disease and to associated risk factors. Stress testing and other cardiovascular investigations and indications for, and responses to, these tests are considered. The results of these investigations will be used for developing clinical skills as will case studies.

PHPH5443/5543
Medical Applications of Exercise II
Staff Contact: Dr D. Garlick
Note/s: A compulsory subject

The anatomy of the respiratory system is described. Respiratory physiology deals with ventilation and flow-volume nerves in different age groups and in healthy and non-healthy subjects. The pathophysiology of exercise-induced asthma is described and its prevention and management. The role of exercise is dealt with in relation to acute and chronic asthma in athletes and in relation to the management of chronic obstructive lung disease.

The use of isometric and isotonic exercise is discussed in relation to musculoskeletal medicine such as the use of strength testing in diagnoses, management and rehabilitation from acute and chronic sporting injuries.

Information is discussed on the use of rhythmic exercise in the management of chronic musculoskeletal problems.

PHPH5414/5514
Sports Science
Staff Contact: Dr D. Garlick
Note/s: A compulsory subject

The biochemistry is described for intermediary metabolism and specifically aerobic and anaerobic metabolism in muscle and the hormonal control. Energy expenditure is considered in the resting and exercising person.

Muscle physiology deals with the contractile process and features of tensile force in relation to the different fibre types. The motor unit is described as are the sensory inputs to the central nervous system and its control of motor function. Biomechanical principles include a consideration of subjective, objective and predictive analysis.

Gastrointestinal physiology surveys the motility and digestive and absorptive activities of the gut.

PHPH5524
Research Methods
Staff Contact: Dr D. Garlick
Note/s: A compulsory subject, for the Masters Course only

Biostatistics deals with basic statistical functions including graphical presentation and interpretation of data. Epidemiological principles deal with defining a population and how to sample it and elicit data and describes epidemiological variables and attributes.

The student is introduced to the key components of a research study in sports medicine including the assessment of the relevance of a measurement technique to a given research question. The student develops an approved research project.

PHPH5434/5534
Sports Injuries III
Staff Contact: Dr D. Garlick
Note/s: An elective subject

Principles are described for rehabilitation of the injured athlete for recovery from soft tissue injury, restoration of strength and aerobic function, respiration of proprioceptive function and co-ordination and technique. These principles are applied to recovery from soft tissue injury and recovery from injuries to the limbs, trunk, neck, head, special senses.

Prevention of injury involves consideration of the type of sporting activity, the adequacy of rules and their enforcement, the skill and training of coaches and trainers, athlete equipment, training programs, nutrition and hydration, pre- and post-competition procedures, maintenance of health and fitness.

Special population groups will be considered, namely - children in sport with their growth and maturation and the vulnerability of the immature skeleton; the female athlete - age changes, acute and chronic injuries; the older athlete - balance and co-ordination, osteoporosis.

The team physician - preventive functions and role in athlete, coach and trainer education. The problems of team travel are considered, including that of air travel and problems of overseas locations and of nutrition. Further aspects include equipment and supplies and medico-legal aspects.
Screening prior to exercise and sporting activity is discussed in terms of objectives, nature of the examination, orthopaedic screening, nature of the sport. Medical conditions which modify exercise prescription and sports participation are discussed such as metabolic problems and systemic diseases in general and the effects of prescribed drugs. Exercise prescription is based on an assessment of cardiovascular fitness based on heart rate response to exertion or related to perceived exertion. The prescription includes duration, frequency and progression of activity and also the conditions for exercise and supervision of it. Exercise prescription is considered in relation to those with medical conditions.

Disabled patients, exercise and sporting activities require appropriate evaluation with consideration of the biomechanical and autonomic restrictions depending on the disability such as lower limb amputations, spinal cord or brain injured patients.

Programs to enhance health are considered in relation to the nature of the community and the needs of particular groups within a community.

**Medical Applications of Exercise III**

*Staff Contact: Dr D. Garlick*

*Note/s: an elective subject*

Disabled patients, exercise and sporting activities require appropriate evaluation with consideration of the biomechanical and autonomic restrictions depending on the disability such as lower limb amputations, spinal cord or brain injured patients.

Programs to enhance health are considered in relation to the nature of the community and the needs of particular groups within a community.

**Sports Psychology**

*Staff Contact: Dr D. Garlick*

*Note/s: An elective subject*

The psychological effects of exercise are described in relation to stress management, management of depression, sleep disorders, concepts of self-esteem and self-efficacy, effect on mental acuity and day-time fatigue, the contribution to the control of addictive behaviour.

The use of psychological procedures will be discussed in regard to motivation and compliance for subjects undertaking health-related activities as well as for athletes involved in performance-related activities.

The psychological aspects of injury will be dealt with in dealing with 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.

**Sports Pharmacology**

*Staff Contact: Dr D. Garlick*

*Note/s: An elective subject*

Basic pharmacology will be outlined and factors affecting pharmacokinetics in relation to routes of administration, plasma levels, volumes of distribution, catabolism 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 on 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 procedures, identification procedures. Drug education and prevention of drug abuse are discussed.

**Sports Nutrition**

*Staff Contact: Dr D. Garlick*

*Note/s: An elective subject*

The course examines food composition tables and dietary intakes of various sections of the community both sedentary and active. Nutrients are dealt with such as protein, carbohydrate, fats, dietary fibre, fluid intake, minerals and vitamins. The recommended dietary intakes are compared with actual intakes of various groups. Nutrition for special groups of physically active people is considered such as children, adolescents, pregnant and lactating women, the elderly, different ethnic groups. Energy balance is considered in relation to weight control.

Nutrition in performance-related activities is discussed in relation to requirements for metabolic fuels, dietary components, mineral and trace elements, fluid, aminoacid and vitamin supplements, training diet. Nutrition in health-related activities is discussed in reference to primary, secondary and tertiary prevention of problems in obesity, coronary heart disease, diabetes, eating disorders.

**Major Project**

*Staff Contact: Dr D. Garlick*

*Note/s: A compulsory subject for M Sp Med*

The project will have been planned and approved in undertaking the subject Research Methods. The Report is to describe research or clinical case-studies extending over at least six months dealing with an area of sports medicine relevant to the candidate's professional interests and relevant to the furthering of the practice of sports medicine.

**Sports Medicine Practicum**

*Staff Contact: Dr D. Garlick*

*Note/s: A compulsory subject for both courses*

The candidate is required to undertake a two week residential course and examinations in the practical and clinical aspects of sports medicine.
Psychiatry

Master of Psychotherapy

PSCY9103
Theoretical Basis of Therapy
Staff Contact: Prof G. Andrews
C5 S1
Techniques for the evaluation of therapy of major mental disorders, classification of mental disorders and use of structured diagnostic instruments. The history and current status of cognitive behavioural psychotherapy. The structured problem solving and behavioural analysis techniques.

PSCY9104
Cognitive Behavioural Psychotherapy 1
Staff Contact: Prof G. Andrews
C10 S2

PSCY9205
Cognitive Behavioural Psychotherapy 2
Staff Contact: Prof G. Andrews
C10 S1
Specific cognitive behavioural techniques for the treatment of the anxiety and depressive disorders, marital and sexual disorders, eating disorders, schizophrenia and chronic pain syndromes.

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

PSCY9206
Project Report
Staff Contact: Prof G. Andrews
C5 S2
Students will be required to develop, in an academic treatise, an evaluation of the treatment of a selection of their cases as examples of how the basic principles of cognitive behaviour therapy applied to the specific characteristics of the individual patient's treatment can be integrated with the current research literature.

Master of Psychological Medicine

PSCY9106
Psychological Medicine 1
Staff Contact: Prof G. Andrews
C5 S1 70hrs
The diagnosis, classification and epidemiology of mental disorders; the doctor as therapist; the tenets of good diagnostic interviewing and good clinical care; the evaluation of treatment; the use of micro counselling and structured problem solving techniques. Case discussions to illustrate these therapy techniques.

PSCY9107
Psychological Medicine 2
Staff Contact: Prof G. Andrews
C5 S2 70hrs
The recognition and treatment of manic and depressive disorders and of the anxiety disorders. The use of pharmacological and cognitive behavioural techniques in these disorders. Crisis resolution in such disorders. Case discussions, including the presentation of material from patients currently in treatment, to illustrate these techniques.

PSCY9208
Psychological Medicine 3
Staff Contact: Prof G. Andrews
C5 S1 70hrs
The recognition and management of cognitive impairment, dementia, and other organic syndromes. The recognition of schizophrenia and personality disorders. Crisis resolution and good clinical care for such patients. Case discussions, including the presentation of material from patients currently in treatment, to illustrate such care.

PSCY9209
Psychological Medicine 4
Staff Contact: Prof G. Andrews
C5 S2 70hrs
Recognition and management of problems arising within marriage and the family. Recognition and management of disorders of children, adolescents, and the elderly presenting in general practice. Case discussions, including the presentation of material from patients currently in treatment, to illustrate the techniques.

PSCY9210
Project Report
Staff Contact: Prof G. Andrews
C10 F 140hrs
Either an account of patients treated, integrating literature, therapy and evaluation of outcome, or a research project related to psychiatry in general practice.
Conditions for the Award of Degrees

First Degrees

Rules, regulations and conditions for the award of first degrees are set out in the appropriate Faculty Handbooks.

For the list of undergraduate courses and degrees offered see Table of Courses by Faculty (Undergraduate Study) in the Calendar.

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

Higher Degrees

For the list of graduate degrees by research and course work, arranged in faculty order, see UNSW Courses (by faculty) in the Calendar.

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*Faculty of Science.
†Faculty of Biological and Behavioural Sciences.
Doctor of Philosophy (PhD)

1. The degree of Doctor of Philosophy may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty or board (hereinafter referred to as the Committee) to a candidate who has made an original and significant contribution to knowledge.

Qualifications

2.(1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor with Honours from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment as a candidate for the degree.

Enrolment

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

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

Examination

5. There shall normally be three examiners of the work, appointed by the Committee, at least two of whom shall be external to the University.

6. Before the work referred to in 3. (1), (2) above is submitted to the examiners the head of the appropriate school shall certify that it is prima facie worthy of examination.

7. At the conclusion of the examination each examiner shall submit a concise report to the Committee on the merits of the published work and a recommendation as to whether the degree should be awarded. The examiners may require the candidate to answer orally or in writing any questions concerning the work.

Fees

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

*In these rules, the term 'published work' shall mean printed as a book or in a periodical or as a pamphlet readily available to the public. The purpose of requiring publication is to ensure that the work submitted has been available for criticism. The examiners may disregard any of the work submitted if, in their opinion, it has not been available for criticism.

* 'School' if used here and elsewhere in these conditions to mean any teaching unit authorized to enrol research students and includes a department where that department is not within a school, or schools or departments where the research is being undertaken in more than one school or department; a centre given approval by the Academic Board to enrol students; and an interdisciplinary unit within a faculty and under the control of the Dean of the Faculty. Enrolment is permitted in more than one such teaching unit.
Doctor of Medicine (MD) by thesis

1. The degree of Doctor of Medicine by thesis may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee) to a candidate who has made an original and meritorious contribution to some branch of medicine.

Qualifications

2. (1) A candidate for the degree shall:
   (a) hold the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales at a level acceptable to the Committee; or
   (b) hold the degrees of Bachelor of Medicine and Bachelor of Surgery or a qualification considered equivalent from a university other than the University of New South Wales at a level acceptable to the Committee; or
   (c) in exceptional cases, submit such evidence of academic and professional attainments in support of the candidature as may be approved by the Committee.

   (2) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such examination or carry out such work as the Committee may prescribe, before permitting enrolment.

   (3) A candidate enrolled under 2. (1)(a) or (b) above shall not submit a thesis for the degree until the lapse of five years from the date of the award of the degrees mentioned therein.

   (4) A candidate enrolled under 2. (1)(c) above shall not submit a thesis for the degree until such period of time has elapsed since enrolment as the Committee shall decide at the time of approving enrolment.

Enrolment and Progression

3. (1) An application to enrol as a candidate for the degree by thesis shall be made on the prescribed form which shall be lodged with the Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.

   (2) In every case, before permitting a candidate to enrol, the Committee shall be satisfied that adequate supervision and facilities are available.

   (3) An approved applicant shall be enrolled in one of the following categories:
       (a) full-time candidature: a candidate who is fully engaged in advanced study and research at the University or at one of its teaching hospitals;
       (b) part-time candidature: a candidate whose occupation leaves the candidate substantially free to pursue a program of advanced study and research at the University or at one of its teaching hospitals;
       (c) external candidature: a candidate who is engaged in advanced study and research away from the University or one of its teaching hospitals.

   (4) A candidate shall be required to undertake an original investigation on a topic approved by the Committee. The candidate may also be required to undergo such examination and perform such other work as may be prescribed by the Committee.

   (5) The work shall be carried out under the direction of a supervisor appointed by the Committee from the full-time academic members of the University staff.

   (6) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school in which the candidate is enrolled and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

   (7) No candidate shall be awarded the degree until the lapse of six academic sessions in the case of a full-time candidate or eight academic sessions in the case of a part-time or external candidate from the date of enrolment. In the case of a candidate who has been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery with honours or who has had previous research experience the Committee may approve remission of up to two sessions for a full-time candidate and four sessions for a part-time or external candidate.

   (8) A full-time candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. A part-time or external candidate shall present for examination not later than twelve academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.
Thesis

4. (1) A candidate shall submit a thesis embodying the results of the investigation.

(2) If a candidate for the degree is not a graduate of the University of New South Wales the greater proportion of the work described must have been carried out in the University or in one of its teaching hospitals, save that in special cases the Committee may permit a candidate to conduct the work at other places where special facilities not possessed by the University may be available or where the subject of the research is uniquely located but only if the candidate spends such period of time within the University, and under such supervision, as may be determined by the Committee.

(3) A candidate shall give in writing to the Registrar two months notice of intention to submit the thesis.

(4) The thesis shall comply with the following requirements.

(a) it must be an original and meritorious contribution to knowledge of the subject;
(b) it must be written in English and reach a satisfactory standard of expression and presentation;
(c) it must consist of the candidate's own account of the research; in special cases work done conjointly with other persons may be accepted provided the Committee is satisfied about the extent of the candidate's part in the joint research.

(5) A candidate may not submit as the main content of the thesis any work or material which has previously been submitted for a university degree or other similar award but may submit any work otherwise previously published, whether or not it is related to the thesis.

(6) The thesis shall contain a certificate signed by the candidate indicating specifically the extent to which the work embodied in the thesis is directly attributable to the candidate's own research and the extent to which the thesis has benefitted from collaboration with persons other than the supervisor.

(7) Four copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses.

(8) It shall be understood that the University retains the four copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis, in whole or in part, in photostat or microfilm or other copying medium.

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.

* 'School' if used here and elsewhere in these conditions to mean any teaching unit authorized to enrol research students and includes a department where that department is not within a school, or schools or departments where the research is being undertaken in more than one school or department; a centre given approval by the Academic Board to enrol students; and an interdisciplinary unit within a faculty and under the control of the Dean of the Faculty. Enrolment is permitted in more than one such teaching unit.
Doctor of Medicine (MD) by thesis 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 jointly 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.

* '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.
(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.

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Master of Community Health (MCH) by Research

1. The degree of Master of Community Health by research may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee) to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.

Qualifications

2. (1) A candidate for the degree shall:

(a) have been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee, or
(b) have been awarded an appropriate degree of Bachelor of at least four full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

Enrolment

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.

(2) In every case before making the offer of a place the Committee shall be satisfied that initial agreement has been reached between the School of Community Medicine and the applicant on the topic area, supervision arrangements, provision of adequate facilities and any coursework to be prescribed and that these are in accordance with the provisions of the guidelines for promoting postgraduate study within the University.
(3) The candidate shall be enrolled as either a full-time or part-time student.
(4) A candidate shall be required to undertake an original investigation on an approved topic. The candidate may also be required to undergo such assessment and perform such other work as may be prescribed by the Committee.
(5) The candidate may undertake the research as an internal student, i.e., at a campus, teaching hospital, or other research facility with which the University is associated, or as an external student not in attendance at the University except for periods as may be prescribed by the Committee.
(6) An internal candidate will normally carry out the research on a campus or at a teaching or research facility of the University except that the Committee may permit a candidate to spend a period in the field, within another institution or elsewhere away from the University provided that the work can be supervised in a manner satisfactory to the Committee. In such instances the Committee shall be satisfied that the location and period of time away from the University are necessary to the research program.
(7) The research shall be supervised by a supervisor or supervisors who are members of the academic staff of the School or under other appropriate supervision arrangements approved by the Committee. Normally an external candidate within another organization or institution will have a co-supervisor at that institution.
(8) No candidate shall be awarded the degree until the lapse of three academic sessions from the date of enrolment in the case of a full-time candidate or four academic sessions in the case of a part-time or external candidate. In the case of a candidate who has been awarded the degree of Bachelor with Honours or who has had previous research experience the Committee may approve remission of up to one session for a full-time candidate and two sessions for a part-time or external candidate.
(9) A full-time candidate for the degree shall present for examination not later than four academic sessions from the date of enrolment. A part-time or external candidate for the degree shall present for examination not later than eight academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

Progression

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

Thesis

5. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the investigation.
   (2) The candidate shall give in writing to the Registrar two months notice of intention to submit the thesis.
   (3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.
   (4) The candidate may also submit any work previously published whether or not such work is related to the thesis.
   (5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees.
   (6) It shall be understood that the University retains the three copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.
Examination

6. (1) There shall be not fewer than two examiners of the thesis, appointed by the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:

(a) The thesis merits the award of the degree.

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

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

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

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

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to represent the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.

Fees

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

Master of Community Health (MCH) by Formal Course Work

1. The degree of Master of Community Health by formal course work may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

Qualifications

2. (1) A candidate for the degree shall:

(a) have been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), or

(b) have been awarded an appropriate degree of Bachelor of at least four full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

Enrolment and Progression

3.(1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar two calendar months before the commencement of the session in which enrolment is to begin.
(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the degree until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or four sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions from the date of enrolment for a full-time candidate and eight sessions for a part-time candidate. In special cases an extension of these times may be granted by the Committee.

Fees

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

Master of Health Personnel Education (MHPEd) by Research

1. The degree of Master of Health Personnel Education by research may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee) to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.

Qualifications

2. (1) A candidate for the degree shall:
   (a) have been awarded an appropriate degree of Bachelor of four full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee, and
   (b) have had the equivalent of at least two years full-time teaching and/or administrative experience of a kind acceptable to the Committee.

   (2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

   (3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

Enrolment

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.

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

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

   (4) A candidate shall be required to undertake an original investigation on an approved topic. The candidate may also be required to undergo such assessment and perform such other work as may be prescribed by the Committee.

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

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

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

(8) No candidate shall be awarded the degree until the lapse of three academic sessions from the date of enrolment in the case of a full-time candidate or four academic sessions in the case of a part-time or external candidate. In the case of a candidate who has been awarded the degree of Bachelor with Honours or who has had previous research experience the Committee may approve remission of up to one session for a full-time candidate and two sessions for a part-time or external candidate.

(9) A full-time candidate for the degree shall present for examination not later than six academic sessions from the date of enrolment. A part-time or external candidate for the degree shall present for examination not later than eight academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

Progression

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

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

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

Thesis

5. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the investigation.

(2) The candidate shall give in writing to the Registrar two months notice of intention to submit the thesis.

(3) The thesis shall present an account of the candidate’s own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate’s part in the joint research.

(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.

(5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees.

(6) It shall be understood that the University retains the three copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.

Examination

6. (1) There shall be not fewer than two examiners of the thesis, appointed by the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:

(a) The thesis merits the award of the degree.

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

(c) The thesis requires further work on matters detailed in my report. Should performance in this further work be to the satisfaction of the Higher Degree Committee, the thesis would merit the award of the degree.
(d) The thesis does not merit the award of the degree in its present form and further work as described in my report is required. The revised thesis should be subject to re-examination.

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

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to 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 Personnel Education (MHPEd) by Formal Course Work

1. The degree of Master of Health Personnel Education by formal course work may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

Qualifications

2. (1) A candidate for the degree shall:

(a) have been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), or

(b) have been awarded an appropriate degree of Bachelor of at least four full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

Enrolment and Progression

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the degree until the lapse of three academic sessions from the date of enrolment in the case of a full-time candidate or five sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions from the date of enrolment for a full-time candidate and eight sessions for a part-time candidate. In special cases an extension of these times may be granted by the Committee.

Fees

4. A candidate shall pay such fees as may be determined from time to time by the Council.
Master of Clinical Education (MClinEd)

1. The degree of Master of Clinical Education may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

Qualifications

2. (1) A candidate for the degree shall:
(a) have been awarded an appropriate degree of Bachelor of four full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), and
(b) be actively engaged in clinical education.
(2) An applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.
(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

Enrolment and Progression

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.
(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.
(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.
(4) No candidate shall be awarded the degree until the lapse of three academic sessions from the date of enrolment in the case of a full-time candidate or four sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions from the date of enrolment and eight sessions for a part-time candidate. In special cases an extension of time may be granted by the Committee.

Examination

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

Fees

5. A candidate shall pay fees as may be determined from time to time by the Council of the University.
Master of Medicine (MMed)

1. The degree of Master of Medicine by formal coursework 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 three years full-time experience in the practice of medicine and be currently so engaged.

In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe before permitting enrolment.

Enrolment and Progression

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the degree until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or four sessions in the case of a part-time candidate. The maximum period of candidature shall be six full-time candidate and twelve academic sessions for a part-time candidate. In special cases a variation to these times may be granted by the Committee.

Fees

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

Master of Paediatrics (MPaed)

1. The degree of Master of Paediatrics by formal course work may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

Qualifications

2. (1) A candidate for the degree shall:

(a) have been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), and

(b) have been awarded the Graduate Diploma in Paediatrics or equivalent.

(c) have had at least two year's professional experience in paediatrics and at least one of these years must be in professional activities of a community nature outside the hospital of a kind acceptable to the Committee.
(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

Enrolment and Progression

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the degree until the lapse of four academic sessions from the date of enrolment. In special cases an extension of time may be granted by the Committee.

Fees

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

Master of Psychological Medicine (MPM)

1. The degree of Master of Psychological Medicine by formal course work may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

Qualifications

2.(1) A candidate for the degree shall have been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee).

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

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe before permitting enrolment.

Enrolment and Progression

3.(1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the degree until the lapse of four academic sessions. The maximum period of candidature shall be eight academic sessions. In special cases a variation to these times may be granted by the Committee.

Fees

4. A candidate shall pay such fees as may be determined from time to time by the Council.
Master of Psychotherapy (MPsychotherapy)

1. The degree of Master of Psychotherapy by formal course work may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

Qualifications

2. (1) A candidate for the degree shall:
   (a) have been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales or from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), and have been awarded a Fellowship, or be eligible to sit part one of the examination of the Royal Australian and New Zealand College of Physicians (FRANZCP or FRANZCP part one eligible) or
   (b) have been awarded the degree of Master of Psychology (Clinical) from the University of New South Wales or another university of tertiary institution at a level acceptable to the Committee.

   (2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

   (3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such course work as the Committee may prescribe, before permitting enrolment.

Enrolment and Progression

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.

   (2) A candidate for the degree shall register as a part-time student at the University and shall be required to undertake such formal subjects and pass such assessment as prescribed.

   (3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

   (4) No candidate shall be awarded the degree until the lapse of four academic sessions from the date of enrolment. The maximum period of candidature shall be eight academic sessions from the date of enrolment. In special cases an extension of time may be granted by the Committee.

Fees

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

Master of Public Health (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 organization or institution will have a co-supervisor at that institution.

(8) No candidate shall be awarded the degree until the lapse of three academic sessions from the date of enrolment in the case of a full-time candidate or four academic sessions in the case of a part-time or external candidate. In the case of a candidate who has been awarded the degree of Bachelor with honours or who has had previous research experience the Committees may approve remission of up to one session for a full-time candidate and two sessions for a part-time or external candidate.

(9) A full-time candidate for the degree shall present for examination not later than six academic sessions from the date of enrolment. A part-time or external candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

Progression

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

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

**Thesis**

5. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the investigation or design.

(2) The candidate shall give in writing to the Registrar two months notice of intention to submit the thesis.

(3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.

(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.

(5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees.

(6) It shall be understood that the University retains the three copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.

**Examination**

6. (1) There shall be not fewer than two examiners of the thesis, appointed by the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the merits of the thesis and shall recommend to the Committee that:

(a) The thesis merits the award of the degree.

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

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

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

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

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to represent the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.

**Fees**

7. A candidate shall pay such fees as may be determined from time to time by the Council.
Master of Public Health (MPH) by Formal Course Work

1. The degree of Master of Public Health by formal course work may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

Qualifications

2. (1) A candidate for the degree shall:
   (a) have been awarded the degree of Bachelor from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee), or
   (b) have had the equivalent of at least three years experience in the health services of a kind acceptable to the Committee.

2. (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.

2. (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.

3. (2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

3. (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.

3. (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 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) be a medical graduate of at least four years standing with experience in general practice or its equivalent.

2. (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 subjects and pass such assessment as prescribed.
(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.
(4) No candidate shall be awarded the degree as a part-time candidate until the lapse of five academic sessions from the date of enrolment. The maximum period of part-time candidature shall be nine academic sessions. In special cases an extension of time may be granted by the Committee.

Examination

4. (1) Assessment is based on the satisfactory completion of written examinations at the end of each subject and the satisfactory completion of the Practicum based on oral and practical demonstration of clinical skills.
(2) The degree of Master of Sports Medicine will be awarded after satisfactory completion of a program of advanced study which has achieved 24 credit points with satisfactory completion of clinical examination and the achievement of six credit points from the satisfactory completion of a Major Project report based on at least one semester of research or clinical studies in relation to sports medicine.

Fees

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

Master of Engineering (ME) and Master of Science (MSc)

1. The degree of Master of Engineering or Master of Science by research may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee) to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.

Qualifications

2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.
(2) An applicant who submits evidence of such other academic or professional attainments as may be approved by the Committee may be permitted to enrol for the degree.
(3) When the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant, before being permitted to enrol, to undergo such examination or carry out such work as the Committee may prescribe.

Enrolment and Progression

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.
(2) In every case, before permitting a candidate to enrol, the head of the school in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:
(a) full-time attendance at the University;
(b) part-time attendance at the University;
(c) external not in regular attendance at the University and using research facilities external to the University.

(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

* 'School' if used here and elsewhere in these conditions to mean any teaching unit authorized to enrol research students and includes a department where that department is not within a school, or schools or departments where the research is being undertaken in more than one school or department; a centre given approval by the Academic Board to enrol students; and an interdisciplinary unit within a faculty and under the control of the Dean of the Faculty. Enrolment is permitted in more than one such teaching unit.
(c) 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 Engineering (ME), Master of Science (MSc) and Master of Surveying (MSurv) without supervision

1. The degree of Master of Engineering or Master of Science or Master of Surveying without supervision may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee) to a candidate who 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

(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.

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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.

* '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.
(5) A candidate enrolled under (2) above shall not submit a thesis for the degree until such period of time has elapsed since enrolment as the Committee shall decide at the time of approving enrolment.

Enrolment

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.

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

(3) An approved candidate shall be enrolled in one of the following categories:

(a) full-time candidature: a candidate who is fully engaged in advanced study and research at the University or at one of its teaching hospitals;

(b) part-time candidature: a candidate whose occupation leaves the candidate substantially free to pursue a program of advanced study and research at the University or at one of its teaching hospitals;

(c) external candidature: a candidate who is engaged in advanced study and research away from the University or one of its teaching hospitals.

(4) A candidate shall undertake, or have undertaken prior to enrolment for the degree, a broad postgraduate training in the principles and practice of surgery over a period of at least three full-time years of a kind acceptable to the Committee.

(5) A candidate shall be required to undertake an original investigation on an approved topic. The candidate may also be required to undergo such assessment and perform such other work as may be prescribed by the Committee.

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

(7) Either the original work embodied in the thesis or the broad postgraduate training in the principles and practice of surgery shall have been undertaken at the University or at one of its teaching hospitals.

(8) No candidate shall be awarded the degree until the lapse of four academic sessions from the date of enrolment in the case of a full-time candidate or six academic sessions in the case of a part-time or external candidate. In the case of a candidate who has had previous research experience the Committee may approve remission of up to two sessions for a full-time candidate and three sessions for a part-time or external candidate.

(9) A full-time candidate for the degree shall present for examination not later than eight academic sessions from the date of enrolment. A part-time or external candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

Progression

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

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

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

* '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.
Thesis

5. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the investigation.
(2) The candidate shall give in writing to the Registrar two months notice of intention to submit the thesis.
(3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.
(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.
(5) Four copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees.
(6) It shall be understood that the University retains the four copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.

Examination

6. (1) There shall be not fewer than three examiners of the thesis, appointed by the Committee, at least two of whom shall be external to the University.
(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:
   (a) The thesis merits the award of the degree.
   (b) The thesis merits the award of the degree subject to minor corrections as listed being made to the satisfaction of the head of School.
   (c) The thesis requires further work on matters detailed in my report. Should performance in this further work be to the satisfaction of the Higher Degree Committee, the thesis would merit the award of the degree.
   (d) The thesis does not merit the award of the degree in its present form and further work as described in my report is required. The revised thesis should be subject to re-examination.
   (e) The thesis does not merit the award of the degree and does not demonstrate that resubmission would be likely to achieve that merit.
(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to 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 subjects and pass such assessment as prescribed. The Graduate Diploma in Clinical Education will be awarded after satisfactory completion of a program of advanced study which achieves 20 credit points and submission of a satisfactory Major Project report based on at least one semester of applied development of research in clinical education.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the diploma until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or four sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions from the date of enrolment for a full-time candidate and six sessions for a part-time candidate. In special cases an extension of time may be granted by the Committee.

Examination

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

Fees

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

Graduate Diploma in Paediatrics (GradDipPaed)

1. The Graduate Diploma in Paediatrics may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

Qualifications

2. (1) A candidate for the diploma shall:

(a) have been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), and

(b) have had at least one year's hospital experience subsequent to graduation of a kind acceptable to the Committee.

(2) An applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the diploma.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.
Enrolment and Progression

3. (1) An application to enrol as a candidate for the diploma shall be made on the prescribed form which shall be lodged with the Registrar at least two calendar months before the commencement of the course (which is in January each year).

(2) A candidate for the diploma shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the diploma until the lapse of two academic sessions from the date of enrolment. In special cases an extension of time may be granted by the Committee.

Fees

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

Graduate Diploma in Health Personnel Education (GradDipHPEd)

1. The Graduate Diploma in Health Personnel Education may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

Qualifications

2. (1) A candidate for the diploma shall:

have been awarded the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), or

have been awarded an appropriate degree of Bachelor of at least four full-time years' duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

(2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the diploma.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

Enrolment and Progression

3. (1) An application to enrol as a candidate for the diploma shall be made on the prescribed form which shall be lodged with the Registrar two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the diploma shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the diploma until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or four sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions for a full-time candidate and eight sessions for a part-time candidate. In special cases an extension of these times may be granted by the Committee.

Fees

4. A candidate shall pay such fees as may be determined from time to time by the Council.
Graduate Diploma of 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 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) be a medical graduate of at least four years standing with experience in general practice or its equivalent.
   (2) An applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the diploma.
   (3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

Enrolment and Progression

3. (1) An application to enrol as a candidate for the diploma shall be made on the prescribed form which shall be lodged with the Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.
   (2) A candidate for the diploma shall be required to undertake such formal subjects and pass such assessment as prescribed.
   (3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.
   (4) No candidate shall be awarded the diploma as a part-time candidate until the lapse of four academic sessions from the date of enrolment. The maximum period of part-time candidature shall be eight academic sessions. In special cases an extension of time may be granted by the Committee.

Examination

4. (1) Assessment is based on the satisfactory completion of written examinations at the end of each subject and the satisfactory completion of the Practicum based on oral and practical demonstration of clinical skills.
   (2) The Graduate Diploma of Sports Medicine will be awarded after satisfactory completion of a program of advanced study which has achieved 24 credit points with satisfactory completion of clinical examination.

Fees

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

The scholarships and prizes listed below are available to students whose courses are listed in this book. Each faculty handbook contains in its Scholarships and Prizes section the scholarships and prizes available with that faculty. The General Information section of the Calendar contains a comprehensive list of scholarships and prizes offered throughout the University. Applicants should note that the awards and conditions are subject to review.

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

Scholarships

Undergraduate Scholarships

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

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

Sam Cracknell Memorial

V Up to $1500 pa payable in fortnightly instalments
T 1 year
C Prior completion of at least 2 years of a degree or diploma course and enrolment in a full-time course during the year of application; academic merit; participation in sport both directly and administratively; and financial need.

Girls Realm Guild

V Up to $1500 pa
T 1 year with the prospect of renewal subject to satisfactory progress and continued demonstration of need
C Available only to female students under 35 years of age who are permanent residents of Australia enrolling in any year of a full-time undergraduate course on the basis of academic merit and financial need.

General

Australian Development Corporation

V Tuition fees. Some students may be eligible for airfares and a stipend.
T Determined by normal course duration
C Information should be obtained from Australian Diplomatic Posts. Conditions and entitlements vary depending on the home country. The closing date is normally early in the year before the year of study.
W.S. and L.B. Robinson
V Up to $6500 pa
T 1 year renewable for the duration of the course subject to satisfactory progress
C Available only to students who have completed their schooling in Broken Hill or whose parents reside in Broken Hill; for a course related to the mining industry. Includes courses in mining engineering, geology, electrical and mechanical engineering, metallurgical process engineering, chemical engineering and science. Applications close 30 September each year. Apply directly to PO Box 460 Broken Hill NSW 2880.

Sporting Scholarships
V $2000 pa
T 1 year with possibility of renewal
C Available to students who are accepted into a course of at least two years duration. Prospective applicants should have an outstanding ability in a particular sport and are expected to be an active member of a UNSW Sports Club. Apply directly to Sport and Recreation Section, The University of New South Wales, Kensington NSW 2052.

Alumni Association
V Up to $1500 pa
T 1 year with the possibility of renewal
C Available to students enrolled in any year of a full-time course. Candidates must be the children of Alumni of the University of NSW and may be either permanent residents of Australia or international students.

General Accident Australian Bicentennial St Andrews Scholarship
V £Stg4840
T approximately 12 months
C Applicants should be Australian citizens who are proceeding to Honours in Economics, History, Philosophy, Economic and Social History or Social Anthropology. The awards are for study at St Andrews, United Kingdom.

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

The following publications may also be of assistance: 1. Awards for Postgraduate Study in Australia and Awards for Postgraduate Study Overseas, published by the Graduate Careers Council of Australia. PO Box 28, Parkville, Victoria 3052;* 2. Study Abroad, published by UNESCO.*
Details of overseas awards and exchanges administered by the Department of Employment, Education and Training can be obtained from: Awards and Exchanges Section, Department of Employment, Education and Training, PO Box 826, Woden, ACT 2606.

Where possible, the scholarships are listed in order of faculty. Applicants should note that the awards and conditions are subject to review.

Korea, Malaysia, Philippines, Singapore, Sri Lanka, Taiwan, Thailand and Vietnam. Applicants must be Australian citizens, or have Permanent Resident status, and have lived in Australia for the 12 months prior to the close of applications on 30 June.

Caltex National Scholarship for Women
V $50,000 over two years
T Up to 2 years
C Applicants must be Australian citizens or have resided continuously in Australia for 5 years and have completed, or will complete, in 1994 an award from an Australian institution. Applicants may be proposing to undertake study in any discipline overseas. Application to the Honorary Secretary, Caltex National Scholarship, University by 17 September.

Kobe Steel Scholarship for Postgraduate Study at St Catherine's College, Oxford University
V £14,520
T Up to 2 years
C Applicants must be Australian nationals. Applications close on 31 October with Kobe Steel Australia P/L (Level 32 Gateway, 1 Macquarie Place, 2000).

General

Australian Awards for Research In Asia (AARA)
T 3 to 12 months
C The awards are for postgraduate study or fieldwork in Cambodia, China, Hong Kong, India, Indonesia, Japan,
University Postgraduate Research Scholarships
T 1-2 years for a Masters and 3-4 years for a PhD degree
V Living allowance of $14,474 pa. Other allowances may also be paid. Tax free.
C Applicants must be honours graduates or equivalent in the Medicine or Commerce faculties, or the University College, Australian Defence Force Academy. A limited number of scholarships are offered subject to the availability of funds. Information should be obtained from the Faculty office.

Australian Postgraduate Awards
T 1-2 years for a Masters and 3-4 years for a PhD degree
V $11,687 to $18,679 (1993 rates). Other allowances may also be paid. Tax free.
C Applicants must be honours graduates or equivalent or scholars who will graduate in current academic year, and who are domiciled in Australia. Applications to Registrar by 31 October.

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

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

Australian American Educational Foundation Fulbright Award
V $11,500 pa and travel expenses
T 1 year, renewable
C Applicants must be graduates who are domiciled in Australia and wish to undertake research or study for a higher degree in America. Applications close 30 September with The Secretary, DEET, AAEF Travel Grants, PO Box 826, Woden, ACT 2606. Application forms are available from the Associate Registrar, University of Sydney, NSW 2006, telephone (02) 692 2222.

Gowrie Scholarship Trust Fund
V $6000 pa. Under special circumstances this may be increased.
T 2 years
C Applicants must be members of the Forces or children of members of the Forces who were on active service during the 1939-45 War. Applications close with the Academic Registrar by 31 October.

Harkness Fellowships of the Commonwealth Fund of New York
V Living and travel allowances, tuition and research expenses, health insurance, book and equipment and other allowances for travel and study in the USA
T 12 to 21 months
C Candidates must be Australian citizens and 1. Either members of the Commonwealth or a State Public Service or semi-government Authority. 2. Either staff or graduate students at an Australian university. 3.
Individuals recommended for nomination by the Local Correspondents. The candidate will usually have an honours degree or equivalent, or an outstanding record of achievement, and be not more than 35 years of age. Applications close 30 September with the Academic Registrar. Forms available from Mr J. Larkin, Bureau of Agriculture and Resource Economics, GPO Box 1563, Canberra, ACT 2601.

The Packer, Shell and Barclays Scholarships to Cambridge University

V Living and travel allowances, tuition expenses
T 1-3 years
C Applicants must be Australian citizens who are honours graduates or equivalent, and under 26 years of age. Applications are available from The Secretary, Cambridge Commonwealth Trust, PO Box 252, Cambridge CB2 ITZ, England. The scholarship closes on 15 October.

The Rhodes Scholarship to Oxford University

V Approximately $15,000 pa and fees
T 2 years, may be extended for a third year.
C Unmarried Australian citizens aged between 19 and 25 who have an honours degree or equivalent. Applications close in September each year with The Secretary, University of Sydney, NSW 2006.

Medicine

Arthritis Foundation Research Scholarships

V $20,000 (Medical) and $14,500 (Science) tax free
T 1 year with the possibility of renewal for a further two years
C Applicants must be Australian citizens or have Permanent Resident status and be enrolled in studies leading to a PhD or MD. Applications close with the Foundation on 2 July.

Commonwealth Aids Research Grants (CARG) Postgraduate Scholarships

V To be determined by the Minister (tax free)
T Up to 3 years
C Applicants must be Australian citizens or Permanent Residents who are currently residing in Australia. Applications close 1 July with the CARG Committee, 6th Floor, Albermarle Building, Furzer St, Woden ACT 2606.

Community Health and Anti-Tuberculosis Association – The Harry Windsor Research Scholarship

V $21,528 pa (Medical graduates), $14,474 (Biomedical Science Graduates) or $18,679 (Priority Research rate)
T Up to 3 years
C Applicants must be proposing to undertake medical research in the areas of tuberculosis, respiratory disease (particularly community aspects) or community health. Applicants must be Australian citizens or Permanent Residents who are currently residing in Australia. Applications close 30 August.

Menzies Research Scholarship in the Allied Health Sciences

V $19,000 pa, tax free
T 2 years
C Applications close on 25 September with the Menzies Foundation, 210 Clarendon St, East Melbourne 3002.

National Campaign Drug Abuse (NCADA) Postgraduate Research Scholarship

V $21528 pa
T Initially for 1 year, with the possibility of renewal for a further 2 years
C Scholarships aim to develop expertise in researching and evaluating non-biomedical approaches to the prevention and treatment of drug misuses. Selection is based on academic merit, work experience and the potential of the project.

Oxford Nuffield Medical Fellowship

V Living and travel allowances, tuition fees
T Up to 3 years
C Clinical Assistantship at Oxford University. Applicants must be graduates of a university in a Commonwealth country. Applications close in March with the Selection Committee, Australian Academy of Science (GPO Box 783, Canberra City).

Sir Robert Menzies Memorial Scholarships in Law and Medicine

See above under Law

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

The Australian Kidney Foundation

T Up to 3 years
C To enable a suitable graduate to undertake research related to kidney and urinary tract. Applications close 1 September with the Australian Kidney Foundation, PO Box 62, Garran, ACT 2605.
The National Health and Medical Research Council

V $21,528 pa (Medical) and $14,474 pa (Biomedical)- tax free
T 2-3 years renewable
C Applications must be submitted to the Scholarships Unit by 1 June (Medical) and 16 September (Biomedical).

National Heart Foundation of Australia
The National Health and Medical Research Council

V Up to $15,440 pa
T 1 year renewable
C Applications close 31 May with the Deputy Registrar, Medicine, NHF, PO Box 2, Woden, ACT 2606. An alternative closing date of 31 October applied to Postgraduate Science Research Scholarships to accommodate students currently in the final year leading to the award of the degree of Bachelor of Science at honours level.

The Asthma Foundation of New South Wales
Applications close 12 August with the Asthma Foundation 1-12 Angel Place, NSW 2000

Prizes

Undergraduate University Prizes

The following information summarizes undergraduate prizes awarded by the University. Prizes which are not specific to any School are listed under General. All other prizes are listed under the Faculty or Schools in which they are awarded.

Information regarding the establishment of new prizes may be obtained from the Examinations Section located on the Ground Floor of the Chancellery.

General

The Sydney Technical College Union Award
V $400.00 and Bronze Medal
C Leadership in student affairs combined with marked academic proficiency by a graduand

The University of New South Wales Alumni
V Statuette Association Prize
C Achievement for community benefit by a student in the final or graduating year

Faculty of Medicine

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

The Australian Medical Association Prize for General Practice
V $300.00
C The best report based on the period of attachment in general practice

The Combined Teaching Hospitals Senior Staff Prize
V $500.00
C The best performance in the clinical years of courses 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Drug and Alcohol Foundation Prize
V $250.00
C The best essay or article on Alcoholism and/or Drug Abuse
The Foundation Year Graduates Medal
V Silver Medal
C Leadership and fellowship by a graduand in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Medical Women’s Society of New South Wales
V $150.00
C The best performance by a female student throughout the course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Prince of Wales Hospital Ladies Auxiliary Prize
V $500.00
C The best performance in Years 1 and 2 of the course 3801 (BSc(Med)MBBS) or in the undergraduate medicine component of years 1, 2 and 3 of the course 3840 (BA BSc(Med)MBBS)

The Wallace Wurth Prize
V $200.00
C The best overall performance in any graduating year by a student enrolled in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The W.G. Tellesson Memorial Prize
V $150.00
C The best performance in MDSG3001 Clinical Studies by a student in Year 3 of course 3801 (BSc(Med)MBBS) or year 4 of courses 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Maurice (Toby) Arnold Prize
V At least $100.00
C The highest mark in Anatomy (including all sub-disciplines of anatomy) in Year 2 of course 3801 (BSc(Med)MBBS) or 3840 (BA BSc(Med)MBBS)

The Prize in Practical Anatomy
V $100.00
C The best performance in Practical Anatomy (including Radiological Anatomy) by a student in Year 2 of course 3801 (BSc(Med)MBBS) or 3840 (BA BSc(Med)MBBS)

The Winifred Dickes Rost Prize
V At least $100.00
C Outstanding merit in Anatomy in the final year of the Bachelor of Science degree course

School of Community Medicine

The 2/5 Australian General Hospital Association Prize
V $200.00
C The best performance in Community Medicine by a Year 5 student in course 3801 (BSc(Med)MBBS) or Year 6 student in 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Department of Health, Rural General Practice Prize
V $500.00
C The best essay written in the topic area of rural general practice by a student proceeding to the award of the degrees (BSc(Med)MBBS) or (BScMBBS) or (BA BSc(Med)MBBS)

The International Health Prize
V Annual interest on $5,000.00
C The best performance in Health in Developing Countries (CMED9605) for all students proceeding to the degrees of MPH (course code 9045) MCH (course code 9020)

The New South Wales Department of Health Prize
V $500.00
C The best performance in the Community Medicine component of subject MDSG4001 in course 3801 (BSc(Med)MBBS), or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)
The Richard Kelman Prize
V $100.00
C Excellence in the Occupational Health component of subject MDSG4001 by a student in course 3801 (BSc(Med)MBBS), or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

School of Obstetrics and Gynaecology

The Gordon Lowe Memorial Prize
V $150.00
C The best performance in subject Obstetrics and Gynaecology (OBST5001) in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Royal Hospital for Women Senior Medical Staff Prize
V $100.00
C The best clinical performance in subject Obstetrics and Gynaecology (OBST5001) in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Upjohn Prize in Obstetrics & Gynaecology
V $125.00
C The prize shall be open to all students undertaking an Obstetrics and Gynaecology term at Liverpool Hospital and shall be awarded for the best performance in this term

School of Pathology

The G.R. Cameron Memorial Prize
V $50.00
C The highest aggregate mark in the pathology component of PATH3101 in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Macquarie Prize in Diagnostic Pathology
V $500.00 and Medal
C The best performance in the Diagnostic Pathology component of PATH3101 in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Sugerman Prize in Clinical Pathology
V $1000.00
C The best performance in a combination of PATH3101 (Pathology) and subject MDSG4001 (Integrated Clinical Studies and Community Studies) by a student in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Sugerman Prize in Experimental Pathology
V $1000.00
C The most proficient research done in basic or applied pathology by a student in course 3830 (BSc(Med)Hons)

School of Paediatrics

The Karitane Mothercraft Society Prize
V $150.00
C The best essay written in the topic area of 'Mother/child relationships relevant to health care' by a student proceeding to the degree of Bachelor of Science (Medicine), Bachelor of Medicine, Bachelor of Surgery (BSc(Med)MBBS) or the combined Science/Medicine degrees (BScMBBS) or the combined Arts/Medicine degree (BA BSc(Med)MBBS)

The Paediatrics Staff Prize
V $200.00
C An outstanding performance in subject Paediatrics (PAED5101) by a student enrolled in course 3801 (BSc(Med)MBBS) or 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

School of Physiology and Pharmacology

The D I McCloskey Prize for Physiology/Pharmacology Honours
V $100.00
C The best performance in PHPH4218 Physiology 4 (Hons) or PHPH4258 Pharmacology (Hons) by a student in the Bachelor of Science or Bachelor of Medicine, Bachelor of Surgery in the Faculty of Medicine or the Board of Studies in Science and Mathematics

The D.N. Wade Prize For Medical Pharmacology
V $100.00
C The best performance in PHPH3055 (Medical Pharmacology) by a student in course 3801 (BSc(Med)MBBS), 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)
The Doerenkamp-Zbinden Prize in Pharmacology
V $100.00
C The highest aggregate for PHPH3152 (Pharmacology) in the Science Course

The F.C. Courtice Prize for Physiology 2
V $100.00
C The best performance in PHPH3114 (Physiology 2) in a Bachelor degree course

The F.C. Courtice Prize for Medical Physiology 1
V $100.00
C Best performance in PHPH2018 (Medical Physiology 1) in course 3801 (BSc(Med)MBBS) or 3840 (BA BSc(Med)MBBS)

The School of Physiology Staff Prize For Physiology 1 or Principles of Physiology
V $100.00
C The best performance in PHPH2112 (Physiology 1) or PHPH2122 (Principles of Physiology) in course 3821 (BScMBBS)

The School of Physiology and Pharmacology Staff Prize For Medical Biology
V $100.00
C The best performance in PHPH1004 (Biology for Medical students) in Year 1 of course 3801 (BSc(Med)MBBS) or 3840 (BA BSc(Med)MBBS)

The W.E. Glover Prize For Physiology
V $100.00
C The best performance in PHPH3014 (Medical Physiology 2) in course 3801 (BSc(Med)MBBS), 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

School of Psychiatry

The David Jeremy Keen Memorial Prize
V $50.00
C The best performance in PSCY2101 (Human Behaviour 2) in course 3801 (BSc(Med)MBBS), or 3840 (BA BSc(Med)MBBS) or PSCY2201 (Human Behaviour) in course 3821 (BSc MBBS).

The John Kerridge Memorial Prize
V $100.00
C The best performance in Psychiatry in the final year of the Bachelor of Medicine, Bachelor of Surgery degree course

School of Surgery

The Graduation Prize in Surgery
V $100.00
C The best performance in the surgery component of MDSG4001 (Integrated Clinical and Community Studies) in course 3801 (BSc(Med)MBBS), 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)

The Royal Australian College of Ophthalmologists Prize
V $250.00 and Medal
C The best essay on an ophthalmological subject by a student in the fifth year of course 3801 (BSc(Med)MBBS), or the 6th year of courses 3821 (BScMBBS) or 3840 (BA BSc(Med)MBBS)
Graduate University Prizes

The following information summarizes graduate prizes awarded by the University.

C The best essay or article on Alcoholism and/or Drug Abuse

Faculty of Medicine

The Drug and Alcohol Foundation Prize
V $250.00

School of Community Medicine

V Annual interest on $5,000.00
C The prize shall be open to all students proceeding to the degree of Master of Community Health and shall be awarded for the best performance in the overall course.
The University of New South Wales, Kensington Campus

Theatres
Biomedical Theatres E27
Central Lecture Block E19
Chemistry Theatres (Dryer, Mellor, Murphy, Nyholm, Smith) E12
Classroom Block (Western Grounds) H3
Fig Tree Theatre B14
Io Myers Studio D9
Keith Burrows Theatre J14
Mathews Theatres D23
Parade Theatre E3
Quadrangle Theatre E15
Macauley Theatre (Main Building) K14
Rex Vowels Theatre F17
Science Theatre F13
Sir John Clancy Auditorium C24
Webster Theatre G15

Sir Robert Webster G14
Unisearch House L5
University Regiment J2
University Union (Roundhouse) E6
University Union (Blockhouse) G6
University Union (Squarehouse) E4
Wallace Wurth School of Medicine C27
Warrane College M7

Communications Law Centre C15
Community Medicine D26
Computer Science and Engineering G17
Computing Services Department F25
Computer Contact Lens Research Unit: 22-32 King St, Randwick
Economics F20
Education Studies G2
Educational Testing Centre E4
Electrical Engineering G17
Energy Research, Development & Information Centre F10
Engineering (Faculty Office) K17
English C20
Examinations C22
Fees Office C22
Fibre Science and Technology G14
Food Science and Technology B8
French C20
Geography K17
German and Russian Studies C20
Graduate School of the Built Environment H14
Groundwater Management and Hydrogeology F10
Health Service, University E15
Health Services Management C22
History C20
House at Pooh Corner (Child Care) N8
Human Resources C22
Industrial Design G14
Industrial Relations and Organizational Behaviour F20
Information, Library & Archives Studies F23
Information Systems E15
Institute of Languages: 4 Francis St, Randwick
International Student Centre E15
International Student Centre F9
IPACE Institute F23
Japanese Economic and Management Studies E15
Kanga's House (Child Care) O14
Landscape Architecture K15
Law (Faculty Office) F21
Law Library F21
Legal Studies & Taxation F20
Liberal and General Studies C20
Lost Property C22
Marine Science D26
Marketing F20
Materials Science and Engineering E8
Mathematics F23
Mechanical and Manufacturing Engineering J17
Medical Education C27
Medicine (Faculty Office) B27
Membrane and Separation Technology F10
Microbiology and Immunology D26
Mines K15
Music and Music Education B11
News Service C22
Optometry J12
Pathology C27
Performing Arts B10
Petroleum Engineering D12
Philosophy C20
Physics K15
Physiology and Pharmacology C27
Political Science C20
Printing Section C22
Professional Development Centre E15
Professional Studies (Faculty Office) G2
Property C22
Psychology F23
Publications Section C22
Remote Sensing K17
Safety Science B9
Science (Faculty Office) E12
Science and Technology Studies C20
Social Science and Policy C20
Social Policy Research Centre F25
Social Work G2
Sociology C20
Spanish and Latin American Studies C20
Sport and Recreation Centre B6
Squash Courts B7
Student Centre (off Library Lawn) C22
Student Services:
Careers, Loans, Accommodation etc E15
Counselling E15
Students' Guild E15
Students' Union E15
Surfing K17
Swimming Pool B4
Textile Technology G14
Theatre and Film Studies B10
Town Planning K15
UNSW Press: 22-32 King St, Randwick
WHO Regional Training Centre C27
Wool and Animal Sciences G14
Works and Maintenance B14A

Buildings
Applied Science F10
Barker Street Gatehouse N11
Basser College (Kensington) C18
Central Store B13
Chancellery C22
Dalton (Chemistry) F12
Goldstein College (Kensington) D16
Golf House A27
Gymnasium B5
International House C6
John Goodsell (Commerce and Economics) F20
Kensington Colleges (Office) C17
Library (University) E21
Link B6
Maintenance Workshop B13
Mathews F23
Menzies Library E21
Morven Brown (Arts) C20
New College L6
Newton J12
NIDA D2
Parking Station H25
Parking Station N18
Philip Baxter College (Kensington) D14
Quadrangle E15
Robert Heftron (Chemistry) E12
Sam Cracknell Pavilion H8
Samuels Building F26
Shalom College N9

Arts and Social Sciences
Biochemistry and Molecular Genetics D26
Biological and Behavioural Sciences (Faculty Office) D26
Biomedical Engineering F25
Biomedical Library F23
Biotechnology F25
Built Environment (Faculty Office) H14
Campus Services C22
Cashier's Office C22
Chaplains E4
Chemical Engineering and Industrial Chemistry F10
Chemistry E12
Civil Engineering H20
Co-op Bookshop E15
Commerce and Economics (Faculty Office) E15

Computing Services Department
Examinations C22
Fees Office C22
Information, Library & Archives Studies F23
Information Systems E15
Institute of Languages:
International Student Centre F9
IPACE Institute F23
Japanese Economic and Management Studies E15
Kanga's House (Child Care) O14
Landscape Architecture K15
Law (Faculty Office) F21
Law Library F21
Legal Studies & Taxation F20
Liberal and General Studies C20
Lost Property C22
Marine Science D26
Marketing F20
Materials Science and Engineering E8
Mathematics F23
Mechanical and Manufacturing Engineering J17
Medical Education C27
Medicine (Faculty Office) B27
Membrane and Separation Technology F10
Microbiology and Immunology D26
Mines K15
Music and Music Education B11
News Service C22
Optometry J12
Pathology C27
Performing Arts B10
Petroleum Engineering D12
Philosophy C20
Physics K15
Physiology and Pharmacology C27
Political Science C20
Printing Section C22
Professional Development Centre E15
Professional Studies (Faculty Office) G2
Property C22
Psychology F23
Publications Section C22
Remote Sensing K17
Safety Science B9
Science (Faculty Office) E12
Science and Technology Studies C20
Social Science and Policy C20
Social Policy Research Centre F25
Social Work G2
Sociology C20
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Swimming Pool B4
Textile Technology G14
Theatre and Film Studies B10
Town Planning K15
UNSW Press: 22-32 King St, Randwick
WHO Regional Training Centre C27
Wool and Animal Sciences G14
Works and Maintenance B14A

General
Aboriginal Student Centre:
47 Botany St, Randwick
Accommodation (off-campus) E15
Accounting E15
Admissions C22
Adviser for Prospective Students C22
Alumni Relations: Fingani,
76 Wentworth St, Randwick
Anatomy C27
Applied Bioscience D26
Applied Economic Research Centre F20
Applied Geology F10
Applied Science (Faculty Office) F10
Archives, University E21
Arts and Social Sciences (Faculty Office) C20
Asia-Australia Institute:
34 Botany St, Randwick
Audio Visual Unit F20
Australian Graduate School of Management G27
Banking and Finance E15
Biochemistry and Molecular Genetics D26
Biological and Behavioural Sciences (Faculty Office) D26
Biomedical Engineering F25
Biomedical Library F23
Biotechnology F25
Built Environment (Faculty Office) H14
Campus Services C22
Cashier's Office C22
Chaplains E4
Chemical Engineering and Industrial Chemistry F10
Chemistry E12
Civil Engineering H20
Co-op Bookshop E15
Commerce and Economics (Faculty Office) E15

Communications Law Centre C15
Community Medicine D26
Computer Science and Engineering G17
Computing Services Department F25
Computer Contact Lens Research Unit: 22-32 King St, Randwick
Economics F20
Education Studies G2
Educational Testing Centre E4
Electrical Engineering G17
Energy Research, Development & Information Centre F10
Engineering (Faculty Office) K17
English C20
Examinations C22
Fees Office C22
Fibre Science and Technology G14
Food Science and Technology B8
French C20
Geography K17
German and Russian Studies C20
Graduate School of the Built Environment H14
Groundwater Management and Hydrogeology F10
Health Service, University E15
Health Services Management C22
History C20
House at Pooh Corner (Child Care) N8
Human Resources C22
Industrial Design G14
Industrial Relations and Organizational Behaviour F20
Information, Library & Archives Studies F23
Information Systems E15
Institute of Languages:
4 Francis St, Randwick
International Student Centre F9
IPACE Institute F23
Japanese Economic and Management Studies E15
Kanga's House (Child Care) O14
Landscape Architecture K15
Law (Faculty Office) F21
Law Library F21
Legal Studies & Taxation F20
Liberal and General Studies C20
Lost Property C22
Marine Science D26
Marketing F20
Materials Science and Engineering E8
Mathematics F23
Mechanical and Manufacturing Engineering J17
Medical Education C27
Medicine (Faculty Office) B27
Membrane and Separation Technology F10
Microbiology and Immunology D26
Mines K15
Music and Music Education B11
News Service C22
Optometry J12
Pathology C27
Performing Arts B10
Petroleum Engineering D12
Philosophy C20
Physics K15
Physiology and Pharmacology C27
Political Science C20
Printing Section C22
Professional Development Centre E15
Professional Studies (Faculty Office) G2
Property C22
Psychology F23
Publications Section C22
Remote Sensing K17
Safety Science B9
Science (Faculty Office) E12
Science and Technology Studies C20
Social Science and Policy C20
Social Policy Research Centre F25
Social Work G2
Sociology C20
Spanish and Latin American Studies C20
Sport and Recreation Centre B6
Squash Courts B7
Student Centre (off Library Lawn) C22
Student Services:
Careers, Loans, Accommodation etc E15
Counselling E15
Students' Guild E15
Students' Union E15
Surfing K17
Swimming Pool B4
Textile Technology G14
Theatre and Film Studies B10
Town Planning K15
UNSW Press: 22-32 King St, Randwick
WHO Regional Training Centre C27
Wool and Animal Sciences G14
Works and Maintenance B14A

Theatres
Biomedical Theatres E27
Central Lecture Block E19
Chemistry Theatres (Dryer, Mellor, Murphy, Nyholm, Smith) E12
Classroom Block (Western Grounds) H3
Fig Tree Theatre B14
Io Myers Studio D9
Keith Burrows Theatre J14
Mathews Theatres D23
Parade Theatre E3
Quadrangle Theatre E15
Macauley Theatre (Main Building) K14
Rex Vowels Theatre F17
Science Theatre F13
Sir John Clancy Auditorium C24
Webster Theatre G15
This Handbook has been specifically designed as a source of detailed reference information for first year and re-enrolling undergraduate and postgraduate students. Separate handbooks are published for Applied Science, Arts and Social Sciences, Built Environment, Commerce and Economics, Engineering, Law, Medicine, Professional Studies, Science, the Australian Graduate School of Management, College of Fine Arts, University College (ADFA) and the Centre for Liberal and General Studies. For fuller details about the University – its organisation, staff members, description of disciplines, scholarships and prizes and so on, consult the University Calendar (Summary Volume). For further information on student matters consult the University Student Guide.