THE UNIVERSITY OF
NEW SOUTH WALES

Faculty of
Medicine

HANDBOOK

1996

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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 1995, but may be amended without notice by the University Council.

CREDIT POINTS - IMPORTANT NOTE

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

Old subject measures have been replaced by new university credit points. Every effort has been made to ensure the accuracy of the credit point values shown for all subjects. However, if any inconsistencies between old and new credit point measures cause concern, students are advised to check with their faculty office for clarification before making 1996 subject selections based on the credit points shown in this handbook.

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Contents

Graduate Study 57

Course Outlines 58

Subject Descriptions 67

Conditions for the Award of Degrees 83

Message to New Students from the Dean

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

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

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

Calendar of Dates

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

Session 1 commences on the Monday nearest 1 March.

Faculties other than Medicine, AGSM and University College

	1996	1997
Session 1 (14 weeks)	4 March to 4 April 15 April to 14 June	3 March to 27 March 7 April to 13 June
Mid-session recess	5 April to 14 April	28 March to 6 April
Study period	15 June to 20 June	14 June to 19 June
Examinations	21 June to 9 July	20 June to 8 July
Mid-year recess	10 July to 28 July	9 July to 27 July
Session 2 (14 weeks)	29 July to 27 September 8 October to 8 November	28 July to 26 September 7 October to 7 November
Mid-session recess	28 September to 7 October	27 September to 6 October
Study period	9 November to 14 November	8 November to 13 November
Examinations	15 November to 3 December	14 November to 2 December

Faculty of Medicine

	1996	1997
Medicine I, II, III	As for other faculties	As for other faculties
Medicine IV		
Term 1		
Campus Program 1	15 January to 2 February	13 January to 31 January
Hospital Program	5 February to 17 March	3 February to 16 March
Term 2	18 March to 28 April	17 March to 27 April
Recess	29 April to 5 May	28 April to 4 May
Term 3	6 May to 16 June	5 May to 15 June

Term 4		
Campus Program 2	17 June to 1 July	16 June to 30 June
Hospital Program	2 July to 11 August	1 July to 10 August
Recess	12 August to 18 August	11 August to 17 August
Term 5	19 August to 29 September	18 August to 28 September
Term 6	30 September to 10 November	29 September to 9 November
Medicine V		
Term 1		
Campus Program	18 January to 19 January	16 January to 17 January
Hospital Program	22 January to 24 March	20 January to 23 March
Term 2	1 April to 2 June	31 March to 1 June
Term 3	11 June to 11 August	10 June to 10 August
Term 4	19 August to 20 October	18 August to 19 October
Medicine VI		
Term 1	Elective - variable dates	Elective - variable dates
Term 2		
Campus Program 1	26 February to 1 March	24 February to 28 February
Hospital Program	4 March to 14 April	3 March to 13 April
Recess	15 April to 21 April	14 April to 20 April
Term 3	22 April to 2 June	21 April to 1 June
Term 4		
Hospital Program	3 June to 14 July	2 June to 13 July
Campus Program 2	15 July to 26 July	14 July to 25 July
Recess	27 July to 4 August	26 July to 3 August
Term 5	5 August to 15 September	4 August to 14 September
Term 6	16 September to 27 October	15 September to 26 October

Staff*

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.

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Lecturers
Kathleen Ruth Clezy, MB BS *Adel.*, FRACP
Gregory John Dore, BSc MB BS *UNSW*, FRACP
Denise Fagan, BScPharmacol *Glasgow*, PhD *Edin.*
Andrew Edwin Grulich, MB BS *Adel.*, MSc(Epid) *Lond.*, DipObst *Flin.*
Matthew Law, MA *Oxf.*, MSc *Kent*
Mark Newell, MB BS *Melb.*, DipGenitourinaryMed *Lond.*

Research Fellow
Anna McNulty, MB BS FACVen GradDipComm *U.T.S.*

Manager, Finance and Administration
Bronwen Turner

Management Committee
Professor W. E. Glover (Chair)
Mr D. Baxter
Professor D. A. Cooper
Ms Helen Evans
Associate Professor R. Kemp
Professor P. McDonald
Professor T. Sorrell
Dr R. Spencer

National Drug and Alcohol Research Centre - Prince of Wales Hospital

Professor and Director
Wayne Denis Hall, BSc PhD *UNSW*

Associate Professor and Head, Brief Intervention Unit
Robyn Lesley Richmond, MA *Syd.*, PhD *UNSW*

Associate Professor
Richard Phillip Mattick, BSc MPsych PhD *UNSW*

Lecturer
Shane Darke, BA PhD *Syd.*

Board of Management
The Hon. K. Rozzoli, MP (Chair)
Professor C. J. D. Fell
Mr K. Evans
Professor W. D. Hall
Mr T. Kingdon
Professor J. Rankin
Dr N. Swan

Rural Health Unit

Rural Health Lecturer (part-time), Kensington Campus
Vacant

Rural Health Lecturer (part-time), Wagga Wagga Base Hospital
Vacant

Affiliated Institutions

Children's Leukaemia and Cancer Research Centre - Prince of Wales Children's Hospital

Professor and Director
Bernard William Stewart, MSc *UNSW*, PhD *Lond.*, FRACI

Visiting Professor
Murray Judson Fraser, MSc *Dal.*, PhD *Camb.*

Senior Research Fellow
Michelle Haber, BSc(Psych) PhD *UNSW*
Murray David Norris, BSc *A.N.U.*, MAppSc *N.S.W.I.T.*, PhD *UNSW*

Research Fellows
Christine Mary Ireland, BPharm PhD *Syd.*
Sally Margaret Pittman, BA *Macq.*, PhD *Lond.*

Advisory Committee
Professor W. E. Glover (Chair)
Professor H. H. Bode
Professor C. J. D. Fell

Mr B.W. Johnson
Mr J. McAdam
Associate Professor D. W. O'Gorman Hughes
Professor B. W. Stewart
Associate Professor M. R. Vowels
Associate Professor L. White

Garvan Institute of Medical Research - St Vincent's Hospital

Professor, Executive Director and Head, Neurobiology Division
John Shine, BSc PhD *A.N.U.*, FAA

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

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

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

Professors
Joan Dawes, MA DPhil *Oxf.*
Peter Philip Gray, BSc *Syd.*, PhD *UNSW*, FIEAust, MAmeriChe

Associate Professors
Lesley Campbell, MB BS *Syd.*, MD *Wash.*, MD *UNSW*, FRACP, MRCP
Ken Kian Yong Ho, MB BS *Syd.*, MD *UNSW*, FRACP
Edward William Kraegen, BSc PhD *UNSW*, MACPSM
Philip Sambrook, MD BS LLB *UNSW*, FRACP

Lecturers
Anne Marie Cunningham, MB BS PhD *Syd.*, FRACP
Paul John Kelly, MB BS *Syd.*, MD *UNSW*, FRACP
Nigel Morrison, BSc PhD *A.N.U.*
Peter Robert Schofield, BScAgr *Syd.*, PhD *A.N.U.*

Board
Mr P. J. Wills (Chair)
Mr R. S. Adler
Mr B. J. Dwyer
Professor G. Farrell
Mr J. H. Gardener (Treasurer)
Professor W. E. Glover AO
Professor J. Niland AO(Deputy Chair)
Ms G. Paton
Sister P. Pilkington, RSC AM
Professor S. Pond, AM
Professor A. Rogers, QC
Sister P. M. Ryan, RSC
Professor J. Shine
Dr R. B. Spencer
Dr R. J. J. Stewart
Mr I. Wingett

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, FAA

Professors
Simon Charles Gandevia, BSc(Med) MD DSc PhD *UNSW*
Elspeth Mary McLachlan, BSc PhD DSc *Syd.*

Associate Professor
Erica Kathleen Potter, BSc *Syd.*, PhD *UNSW*

Lecturers
Glenda Margaret Halliday, BSc PhD *UNSW*
Stephen Ronald Lord, BSc MA *Syd.*, PhD *UNSW*

Board
Mr W. Penfold (Chair)
Mr K. M. Brimaud
Dr R. A. L. Dampney
Mr J. Everett
Professor W. E. Glover
Mr W. Lawrence
Professor D. I. McCloskey
Mr C. I. R. McDonald
Mrs A. Milman
Mr B. Shepherd
Mr R. Turner
Mr J. Walton

Skin and Cancer Foundation

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

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

Medical Director
John de Launey, MB BS FACD

Key to Codes
+ Conjoint appointment
* Appointment across two schools
O Adjunct appointment

Handbook Guide

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

Information Key

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

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

Prefixes

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

Prefix	Organisational Unit	Faculty/Board
ANAT	School of Anatomy	Medicine
ARTS	Faculty of Arts & Social Sciences	
BIOC	School of Biochemistry	Biological & Behavioural Sciences
BIOS	School of Biological Science	Biological & Behavioural Sciences
BIOT	Department of Biotechnology	Applied Science
BSSM	Board of Studies in Science & Mathematics	
CHEM	School of Chemistry	Science
CMED	School of Community Medicine	Medicine
HEAL	School of Health Services Management	Professional Studies
MATH	School of Mathematics	Science
MDSG	Medicine/Surgery Clinical Studies	Medicine
MEED	School of Medical Education	Medicine
MFAC	Faculty of Medicine	

Prefix	Organisational Unit	Faculty/Board
MICR	School of Microbiology & Immunology	Biological & Behavioural Sciences
OBST	School of Obstetrics & Gynaecology	Medicine
PAED	School of Paediatrics	Medicine
PATH	School of Pathology	Medicine
PHPH	School of Physiology & Pharmacology	Medicine
PHYS	School of Physics	Science
PSCY	School of Psychiatry	Medicine

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.

Some People Who Can Help You

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

Undergraduate - Gordon Rees, Administrative Officer, Faculty of Medicine, telephone 385 2459.

Postgraduate - Helen Cannella, Administrative Officer, Faculty of Medicine, telephone 385 2457

Elective term/Clerkships - Moya Pedemont, Administrative Assistant, Faculty of Medicine, telephone 385 2452.

Jeffrey Warnock, Executive Officer, Faculty of Medicine, telephone 385 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, Emergency 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, Thrombosis and Vascular Research as well as a Mass Spectrometry Unit, a Medical Illustration Unit, a Rural Health Unit, the National Centre in HIV Epidemiology and Clinical Research, and a joint Sydney University and UNSW Sexual Health Unit. The Faculty is also affiliated with the Garvan Institute of Medical Research at St. Vincent's Hospital, the Prince of Wales Medical Research Institute at the Prince of Wales Hospital, the Children's Leukaemia and Cancer Research Unit at the Prince of Wales Children's Hospital and the Skin and Cancer Foundation.

Goals of the Faculty

The current major goals for the Faculty over the next few years are to achieve continuous improvement in the quality of the undergraduate course and in the quantity and quality of research.

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

Costs in Addition to Fees

Details of fees have been provided in the Guide to Students 1996 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 Program

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

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

Objectives of the General Education Program

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

1. To provide a learning environment in which students acquire, develop, and deploy skills of rational thought and critical analysis.

2. To enable students to evaluate arguments and information.

3. To empower students to systematically challenge received traditions of knowledge, beliefs and values.

4. To enable students to acquire skills and competencies, including written and spoken communication skills.

5. To ensure that students examine the purposes and consequences of their education and experience at University, and to foster acceptance of professional and ethical action and the social responsibility of graduates.

6. To foster among students the competence and the confidence to contribute creatively and responsibly to the development of their society.

7. To provide structured opportunities for students from disparate disciplines to co-operatively interact within a learning situation.

8. To provide opportunities for students to explore discipline and paradigm bases other than those of their professional or major disciplinary specialisation through non-specialist subjects offered in those other areas.

9. To provide an environment in which students are able to experience the benefits of moving beyond the knowledge boundaries of a single discipline and explore cross- and interdisciplinary connections.

10. To provide a learning environment and teaching methodology in which students can bring the approaches of a number of disciplines to bear on a complex problem or issue.

General Education requirements

The basic General Education requirements are the same for students in all courses:

- Four (4) session length subjects carrying 7.5 credit points each or their equivalent in combinations of session length and year long subjects;
- An additional fifty-six (56) hours of study which fosters acceptance of professional and ethical action and social responsibility. This fifty-six hours of study may be distributed throughout the course, or exist as a separate subject, depending on the course.

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

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

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

Additional information for undergraduate students who first enrolled before 1996

Transitional arrangements

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

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

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

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

Students With Disabilities

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

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

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

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 385 5418 or at Student Services, Eastwing, Quadrangle Building.

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

Student Equity

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

Complaint/Disputes

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

Advocacy and Support

Students can seek assistance getting disputes resolved, either in relation to discrimination or academic matters. Assistance can be sought from various areas in the University including:

Student Equity Unit; Student Guild Advocacy Service; Student Counselling; Equal Employment Opportunity Unit; Course Co-ordinators; Senior Academic Staff; Heads of School.

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

Equal Opportunity in Education Policy Statement

Under the Federal Racial Discrimination Act (1975), Sex Discrimination Act (1984), Disability Discrimination Act (1992) and the New South Wales Anti-Discrimination Act (1977), the University is required not to discriminate against students or prospective students on the grounds of sex, marital status, pregnancy, race, nationality, national or ethnic origin, colour, homosexuality or disability. Under the University of New South Wales Act (1989), the University declares that it will not discriminate on the grounds of religious or political affiliations, views or beliefs.

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

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

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

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

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

Course Content, Curriculum Design, Teaching and Assessment, and Printed Material
Schools and faculties will monitor course content (including titles), teaching methods, assessment procedures, written material (including study guides and handbook and Calendar entries) and audiovisual material to ensure that they are not discriminatory or offensive and that they encourage and facilitate full participation in education by disadvantaged people.

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

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

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

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

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

Teaching Campuses

The South 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 987 available beds on three 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 South 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.

A major development is occurring at the Prince of Wales Hospital that will see the transfer to acute services from Prince Henry Hospital to Prince of Wales Hospital. In addition the Royal Hospital for Women is to transfer to a new state-of-the art hospital from its current location in Paddington, to the Randwick campus in 1997.

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, Gastrosurgery, Psychiatry, Neuropsychiatry, Psychogeriatrics, General Medicine and Renal Dialysis.

Prince of Wales Hospital
High Street, Randwick 2031
Telephone 382 2222, 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 382 1111 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. There are also beds 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.

The Royal Hospital for Women
Oxford Street, Paddington 2021
Telephone 339 4111

The Royal Hospital for Women is the University's principal teaching hospital in obstetrics and gynaecology. The Hospital was established by the Benevolent Society of NSW in 1866 and was Australia's first lying-in hospital. The first medical undergraduate students came to the Royal in 1888 and the present Paddington site was occupied in 1901.

The Hospital is an incorporated facility of the South Eastern Sydney Area Health Service with 170 beds. There are approximately 4,000 births annually and over 6,500 gynaecological procedures. It is a specialist Hospital for obstetrics and gynaecology and includes a department of neonatal paediatrics. The visiting medical staff numbers 51 and the resident medical staff 28.

The first baby health clinic in NSW, the forerunner of today's Early Childhood Health Centres, was established in 1906. The State's first Antenatal Clinic was also started at the Royal Hospital for Women in 1912 and this was the third such clinic in the world. In 1931 the first Archeim Zondeck Pregnancy Test was performed in Australia at the Royal Hospital for Women. In 1948 the Royal established Australia's first Cancer Detection Clinic and in 1984 the first Chorionic Villus sampling was performed at the Hospital.

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

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

The construction of the new Royal Hospital for Women at Randwick commenced in 1994 and will be completed by late-1996.

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 January 1967.

The Hospital has recently undergone major redevelopment. Current bed capacity is 616. A 200 bed private hospital is also being constructed on an adjacent site. The Hospital covers all major specialties including Radiotherapy.

The Hospital is staffed by 105 visiting medical staff, 87 staff specialists and 220 resident medical staff. The Clinical School includes teaching facilities, audiovisual equipment and a library.

The St Vincent's Hospital
Victoria Street, Darlinghurst 2010
Telephone 339 1111, Facsimile 332 4142

St Vincent's Hospital is the principal ecclesiastical hospital in New South Wales and is under the trusteeship of the Sisters of Charity. It was founded in 1857 and moved to the present site in 1870.

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

The St Vincent's Hospital has 420 beds and is an acute general Hospital with highly developed specialist units in most areas of medicine and surgery. The Hospital provides

referral services for New South Wales and Australia and services for the local community. Specialty services at the Hospital include cardiac transplantation, bone marrow transplantation, a Cancer Centre which provides an integrated approach to the management of malignancy and a comprehensive AIDS service. Sophisticated diagnostic departments which include radiology, all branches of pathology and nuclear medicine support the clinicians of the Hospital. Extensive primary and secondary services are also provided to meet the needs of the local community and these include medical, surgical. geriatric and drug and alcohol services.

Research is undertaken in the Garvan Institute of Medical Research, Professorial Departments, the Department of Clinical Pharmacology and the Anxiety Disorders Unit. There are 15 Chairs at the Hospital which include medicine, surgery, cardiology, endocrinology, immunology, psychiatry and clinical pharmacology. 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.

Associated Teaching Hospitals

Calvary Hospital Kogarah Inc
91-101 Rocky Point Road (Cnr Fitzgerald Avenue), Kogarah 2217
Telephone 587 8333, Facsimile 587 1421

Calvary Hospital Kogarah Inc is a Third Schedule Public Hospital conducted by the Sisters of the Little Company of Mary. The Hospital was opened in 1966 and provides multidisciplinary palliative care services for 80 inpatients and day-only admissions. The Hospital has a 20-bed Geriatric Rehabilitation Unit, full multidisciplinary team and therapist gymnasium. There is a Community Palliative Care Team offering holistic, family-orientated care to people with terminal illnesses within the South Eastern Sydney Area Health Service who choose to live at home. An Outpatient Pain Clinic is available at Calvary for these and other patients.

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

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

Visiting medical staff totals 75, affiliates in obstetrics 8, salaried 9 and resident medical staff 30.

The Langton Centre
cnr Nobs and South Dowling Streets
Surry Hills 2010
Telephone 331 2196, Facsimile 360 2320

The Langton Centre specialises in addictions and is divided functionally into six areas, that is, Executive, Detoxification, Methadone Maintenance, Therapy, HIV Prevention Unit, Medical Services and Support Services.

The Exectuive Is responsible for the day-to-day policy development and management of the hospital. The recent arrangements to have the Langton Centre become part of the Prince of Wales Hospital Group, also facilitates the role of the Clinical Director of the Drug and Alcohol Services/Prince of Wales Hospital extending to the Langton Centre.

Medical and Nursing Departments provide detoxification services on an inpatient (25 beds), outpatient or home detoxification basis. Medical staff consists of one full-time and three part-time doctors and a psychiatry registrar on rotation from the Prince of Wales and Prince Henry Hospitals. The Centre doctors also participate as prescribers for the Methadone Maintenance Unit.

A methadone maintenance treatment program is responsible for the dispensing, take-away and home delivery of methadone to approximately 320 clients who are dosed on a daily basis.

Therapy services conduct an intensive seven day treatment program. In addition, there are also a number of outpatient and support groups and one-to-one counselling.

The HIV Prevention Unit is responsible for both the fixed site and outreach/mobile needle/syringe and exchange program. It is also responsible for six secondary outlets within the area.

The Support Services are responsible for reception, domestic, catering, maintenance and driving services of the Centre. The manager is also responsible for overseeing the domestic services for the two half-way houses of the Langton Centre.

Sacred Heart Hospice
170 Darlinghurst Road, Darlinghurst 2010
Telephone 361 9444, Facsimile 361 9555

The Hospice was established in 1890. It is owned and governed by the Sisters of Charity of Australia and is a public hospital. It provides a comprehensive palliative care service incorporating medical, nursing, pastoral, therapy, welfare 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.

St Vincent's Private Hospital
406 Victoria Street, Darlinghurst 2010
Telephone 332 7111, Facsimile 332 7234

St Vincent's Private Hospital is an acute medical and surgical hospital of 228 beds and was opened in 1976.

Consultants from most specialties are represented on its medical staff and the hospital uses the most modern equipment and technology to provide the best health care.

The first St Vincent's Private Hospital opened in 1909, but its origins date to 1838, when the Sisters of Charity arrived in Sydney from Ireland. The enduring philosophy of the sisters of Charity is to recognise the uniqueness of every person and to preserve the dignity and independence of each patient.

With its own Board and Executive Management Team, the hospital has developed facilities to complement those provided across the broad St Vincent's campus - St Vincent's Clinic, St Vincent's General Hopsital and Sacred Heart Hospice. Fully accredited for several years, St Vincent's Private Hospital has adopted the accreditation standards set by the Australian Council on Health Care Standards.

St Vincents Private Hospital is committed to the pursuit of excellence in patient care and to maintaining the highest possible standards in occupational health and safety.

The hospital has 9 operating theatres, including a Day Surgery Unit, Intensive Care Unit and medical and surgical wards.

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.

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 staff).

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 182 beds.

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

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

The area is characterised by a predominantly young population and contains a number of ethnic communities. Over the next 10 years, the Area Health Service is expected to grow by 115,000 people and presently has a higher than average birth rate compared with the rest of New South Wales.

The public hospitals and nursing homes managed by the South Western Sydney Area Health Service are: Bankstown-Lidcombe Hospital, Bowral, Camden, Campbelltown, Fairfield, Liverpool, Queen Victoria Memorial (Picton). There are two Third Schedule institutions, namely Carrington Centennial Nursing Home, Karitane Mothercraft Society.

The Area Health Service remains committed to the integration of community health and hospital services in

order to provide a comprehensive service to its population, which is expected to grow to more than 900,000 people by 2011.

Principal Teaching Hospital

Liverpool Health Service
Liverpool Hospital and Liverpool Community Health Service
Elizabeth Street, Liverpool 2170
Telephone 828 3000 Facsimile 828 3388

There has been a hospital in Liverpool since the early nineteenth century. The present hospital has 463 beds and provides services in medicine, surgery, intensive care, anaesthetics, emergency medicine, paediatrics, obstetrics and gynaecology, dermatology, psychiatry, geriatrics, rehabilitation, drug and alcohol, sexual health medicine and a range of allied health disciplines. It is a major trauma centre and is developing as the tertiary referral centre for the South Western Sydney Area. A full range of pathology services is provided on site by the Area Pathology service. Specialty medical training is provided in most services, and research activities are rapidly expanding. Academic units have been established in most specialties.

There is a strong community orientation and close links with the Liverpool and Hoxton Park Community Health Services and South Western Sydney Public Health Unit. A Division of General Practice has been formed by local GPs. There are good residential and recreation facilities on the Hospital grounds and a well equipped library. There are well developed education programs for both undergraduates and postgraduates.

A major building program is under way which will see the Hospital redeveloped to 692 beds in 1997.

Associated Teaching Hospitals

The Bankstown-Lidcombe Health Service
Bankstown-Lidcombe Hospital and Bankstown-Lidcombe Community Health Service
Eldridge Road, Bankstown 2200
Telephone: 790 0444 Facsimile: 709 1759

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

The Hospital provides a full range of medical and diagnostic services. 1996 will herald the commissioning of a new state-of-the-art hospital. Services will include: subspecialties based medicine, surgery, intensive care, obstetrics and gynaecology, paediatrics, anaesthetics, emergency medicine, mental health as well as a strong emphasis on aged care (80 beds - geriatric medicine, rehabilitation, aged psychiatry). A full range of imaging and clinical measurement modalities will be provided. Substantial teaching facilities will exist in the new hospital.

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

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

The Campbelltown Health Service
Campbelltown Hospital and Campbelltown Community Health Service
Therry Road, Campbelltown 2560
Telephone 046 25 9222, Facsimile 046 29 1338

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

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

Campbelltown Hospital has 210 beds providing general medical and surgical, obstetrics and gynaecology, orthopaedic, paediatric, anaesthetic and mental health services. This includes an 8 bed intensive care/coronary care unit, a very busy 30 bed paediatric unit with a 15 bed Level II special care nursery. A very busy emergency department operates 24 hours per day and is staffed by a Specialist Director and Career Medical Officers. Day procedure facilities are provided by a very active free standing Day Surgery Unit. The Unit has two operating theatres and one procedure room and currently performs approximately 5600 procedures a year.

Campbelltown also offers a 20 bed inpatient psychiatric facility with plans to expand to 30 beds in 1996.

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

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

Fairfield Hospital is a 214 bed facility and provides services in general medicine, general surgery, maternity, paediatric and rehabilitation. Located on the Fairfield Hospital Campus are also the following Area services: General Practice Unit, Interpreter Service, Ethnic Obstetric Liaison Service.

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

The South Western Sydney Area's General Practice Unit is located at Fairfield Hospital. The Unit commenced in 1991 and is run jointly with the University of New South Wales and contains a Professor of General Practice. It provides general practice style service for patients and staff

of the Hospital. It also acts as a centre of education for existing and future general practitioners in the Area and liaises between the Hospital and general practice.

The Fairfield Community Health Centre is located at Mitchell Street, Fairfield (Old Fairfield Hospital site).

The relocation of the Karitane Mothercraft Society to Mitchell Street, Fairfield (Old Fairfield Hospital site) occurred in April 1994. Construction of Braeside Hospital is under way. This will be a 72 bed hospital catering for rehabilitation, psychogeriatrics and palliative care.

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 315,000 which comprises 5.31% of the total New South Wales population.

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

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

Associated Teaching Hospitals

The Illawarra Regional Hospital
The Illawarra Regional Hospital is the major referral hospital for the Illawarra and South Coast. It was formed in 1991 by the amalgamation of Wollongong Hospital with Port Kembla Hospital.

Wollongong Campus
The Wollongong Campus has 251 beds. It provides 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.

Construction of the Clinical Services Building will provide modern and expanded services for emergency, operating theatres, critical care, recovery and radiology. Improved diagnostic facilities will be included in the development. A comprehensive Cancer Care Centre has been established at Wollongong.

Port Kembla Campus
The Port Kembla Campus has 141 beds. It 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 Shellharbour Hospital has 120 beds (5 of which are High Dependency) and works in close co-operation with the Kiama Day Services Unit providing outpatient services to the surrounding district.

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

The Illawarra Area Health Service provide comprehensive mental health care, with psychiatric care consolidated at Shellharbour Hospital. The addition of ten new beds will increase the number of acute inpatient psychiatric beds at Shellharbour Hospital to 34. Lakeview House, the Psychiatric Rehabilitation facility for the Area, also located at Shellharbour Hospital has 20 inpatient beds and provides care for 20 day patients.

The Riverina Health Service

PO Box159, Wagga Wagga NSW 2650
Telephone (069) 386666 Facsimile (069) 218243

Associated Teaching Hospital

Wagga Wagga Base Hospital*
**Subject to formal agreement*

Computing at UNSW

The Division of Information Services (DIS) encompasses information technology and the University Library at UNSW.

Specific University information which is frequently updated is available on the World Wide Web (WWW) in the UNSW home page at **http://www.unsw.edu.au** which has an index to its contents which includes URLs **http://www.acsu.unsw.edu.au** and **http://www.misu.unsw.edu.au**. You can access this information from your workstation and in any computing laboratory with access to WWW through Mosaic or Netscape.

Thye information provided on the WWW includes more details about DIS information technology units such as points of contact for particular areas of responsibility and services provided.

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, and 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 Level 3 of the Library building.

Professional staff are available at the Information Desk on Level 2 to provide reference services and to assist in the use of the catalogues. Instructional classes in the use of the Library and specific subject material can be arranged through the Information Desk.

Serials in the Biomedical Library are shelved in alphabetical order by title and carry the prefix MB or MBQ. Details about Biomedical Library books, serials and audiovisual material can be found in the Library catalogue.

In addition the Biomedical Library offers the following services and facilities: literature searches; on-site and remote access to a wide range of bibliographic databases; and a document supply service for external and remote students.

The University of New South Wales Medical Society (Medsoc)

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

There are a number of annual social events, including the Year 1 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 in October.

All students are encouraged to participate in the Society's activities and to attend the Medsoc meetings which are held in the Student Common Room, Blackett Building, Prince of Wales Hospital. Enquiries should be addressed to the Secretary of the Medical Society, c/- Medsoc Bookshop, Blackett Building, Prince of Wales Hospital.

The Medsoc Shop is an important service provided by the Society. Textbooks, white coats and diagnostic instruments may be bought cheaply, usually 10-18% below retail prices. A Medsoc shop joining fee is payable. The Medsoc Bookshop is located in the Old Morgue Building, Barker Street Entrance, Prince of Wales Hospital.

Undergraduate Rural Health Society

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

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

The Society may be contacted through the School of Community Medicine.

Selection into the Faculty of Medicine

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

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

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

Overseas Students

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

Prerequisite Requirements

The most suitable Higher School Certificate studies (or equivalent) for those who wish to enter the Faculty would include 2 or more units of Mathematics, English and Chemistry. (The 2 Unit Mathematics subject, Mathematics in Society, is not suitable.) To be eligible for selection into the Faculty, students must obtain the required course prerequisite score in the HSC (or equivalent) in Mathematics, English and Science/Chemistry subjects.

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

Course prerequisites for 1996

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

HSC English
2U Contemporary English (75-100) or,
2U General (65-100) or,
2U Related (60-100) or,
3U (25-50)

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

With effect from 1997, the HSC English course prerequisite will be:

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

Contemporary English will not be accepted

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

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

may be required to complete satisfactorially an additional remedial English program before being deemed as having passed the year.

Admission of Aboriginal Students

The Faculty may admit suitably qualified Aboriginal and Torres Strait Islander people outside any quota restrictions. Further information regarding the admission criteria may be obtained from the Aboriginal Education Program on (02) 385 3805 or (02) 398 2611.

Admission of Disadvantaged Students (ACCESS Scheme)

The Faculty may admit, within quota, a number of students of high academic potential whose education has been disadvantaged, over a two year period by circumstances beyond their control. Applicants must meet all Faculty course prerequisites. Further information may be obtained from the Access Scheme Co-ordinator at the University on (02) 385 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 385 2457.

Application Procedures

Applications should be directed to the Universities Admissions Centre, Locked Bag 500, Lidcombe, NSW 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 1; Honours Class II, Division I; Honours Class II, Division II or at Pass level. The award of honours is determined on the basis of a student's performance throughout the six year course, using the weighted average mark for each year which is obtained by weighting the subjects according to hours of teaching.

On completion of Year 3 of the six year course, students also qualify for the degree of Bachelor of Science (Medicine). Students would not ordinarily be awarded the BSc(Med) until the completion of the requirements for the award of the MB BS. However, students who have completed 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 3, 4 and 6 such additional assessment is usually undertaken in December and in Years 1 and 2 in the following January and February. Such further assessment may be given when students, through illness or some other acceptable circumstances, have been prevented from taking one or more of the

assessments or have been disadvantaged during the assessment.

In Year 5, subject examiners may, in the time between the sitting of term assessments and the meeting of the Assessment Committee (normally Thursday of the term recess), require students to undertake further assessment. A student who fails one term may be required to repeat that term in a six week remedial period following Term 5:4. Students are warned that they may be required to undertake such additional assessment and should take this into account if making travel arrangements for the period after the end of Term 5:4.

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

Show Cause

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

Advice to Students on Computing Requirements

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

Student Photographs and Identification Badges

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

Immunization for Medical Students

The Faculty's policy on the immunisation of medical students is currently under review.

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.

		HPW	
		S1	S2
1. ANAT1006	Anatomy 1	5	7
2. BIOC1319	Biochemistry for Medical Students	6	6
3. MFAC1001	Introductory Clinical and Behavioural Studies	3	5
4. PHPH1004	Biology for Medical Students	4	-
5.General Education electives		4	4
Total		22	22

Assessment

Biology is taught only in Session 1 with a final assessment at the end of that session. The other three subjects extend over both sessions and incorporate a final assessment at the end of Session 2. Assessments 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 to Session 2. 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
CP30 S1 HPW5 S2 HPW7

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

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

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

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

BIOC1319
Biochemistry for Medical Students
Staff Contact:A/Prof K. Barrow
CP30 F HPW 6

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

Classification of matter and theories of the structure of matter. Chemical bonding, molecular structure and chemical behaviour. Equilibrium and change in chemical systems. Introduction to colloidal systems. Structure and reactions of organic compounds relevant to biological systems. Introduction to the biochemistry of macromolecules. Bioenergetics and enzyme catalysis. A survey of the principal metabolic pathways, their functions, interrelationships, and regulation. Introductory endocrinology and whole body metabolism.

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

MFAC1001
Introductory Clinical and Behavioural Studies
Staff Contacts: Ms S. Beecher and Dr N. Kelk
CP20 S1 HPW3 S2 HPW5

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

Brief Description: Students attend a three hour small group tutorial each week in Sessions 1 and 2 and a two hour lecture/demonstration in Session 2. In the tutorial groups, students learn interpersonal communication skills, group dynamics, self awareness and cultural sensitivity through participatory exercises. Students take the initiative in preparing and presenting group projects. Session 2 lecture themes include: the individual experience of health and illness in terms of a biopsychosocial model; an introductory human development through the life cycle (childhood, adolescence, adulthood and old age); the particular problems of disadvantaged cultural groups (e.g. Aborigines, recent migrants). The lectures are supported by relevant films and by community visits, activities and discussions in the tutorial groups.

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

PHPH1004
Biology for Medical Students
Staff Contact: Dr G. Courtice and Dr S. Head
CP10 S1 HPW4

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

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

Assessment: Assessment is based on 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 which was studied in Year 1, is continued.

		HPW S1	HPW S2
1. ANAT2007	Anatomy	7	7
2. BIOC2329	Medical Biochemistry and Genetics	4.5	4.5
3. MDSG2001	Clinical Studies 2	2	2
4. PHPH2018	Medical Physiology 1	8	8
5. PSCY2101	Human Behaviour	3	3
Total		24.5	24.5

Assessment

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

Rules of Progression

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

Year 2 Subject Descriptions

For further information regarding these subjects contact the subject authorities.

ANAT2007
Anatomy 2
Staff Contact: Dr E. Tancred
CP35 F HPW7

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

Instruction is organised according to the organ systems and includes the cardiovascular, respiratory, alimentary, urinary, genital, endocrine, lymphatic and nervous systems. In all instances the clinical relevance of the anatomical structures is emphasised. The subject consists of four subsections, each having separate lectures and tutorials: Gross Anatomy, Histology, Embryology, and Neuroanatomy. Gross Anatomy and Histology are taught in Session 1, Neuroanatomy and Embryology are in Session 2. Neuroanatomy gives a description of the organisation and function of the brain and spinal cord with particular reference being made to the sensory and motor systems.

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

BIOC2329
Medical Biochemistry and Genetics
Staff Contact: A/Prof P. Schofield
CP20 F HPW4.5
Prerequisite: BIOC1319

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

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

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

MDSG2001
Clinical Studies 2
Staff Contact: Prof J. Dwyer
CP10 F HPW2

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

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

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

PHPH2018
Medical Physiology 1
Staff Contact: Dr K. Gibson
CP40 F HPW8

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

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

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

PSCY2101
Human Behaviour
Staff Contact: Dr P. Ward
CP15 F HPW3

Objectives: To provide students with key concepts in the five main topic areas and demonstrate the practical application of these concepts in medical practice. The five main topic areas are: research methods in behavioural sciences, psychology in relation to medicine, sociology in relation to medicine, bioethics and human sexuality. Students are 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 subject is produced each session and may be borrowed from the Biomedical Library Closed Reserve or purchased from the School of Psychiatry.

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

Year 3

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

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

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

Assessment

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

Rules of Progression

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

Year 3 Subject Descriptions

For further information regarding these subjects contact the subject authorities.

CMED3001
Medical Ethics and Health Law
Staff Contact: A/Prof P. McNeill
CP10 S2 HPW1.5

Medical Ethics and Health Law builds on medical ethics presented in 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
CP20 F HPW4

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

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

1. Lectures in medicine and surgery which introduce the student to the more common diseases and clinical problems, with emphasis on material relevant to history taking and to physical examination. The teaching builds on and 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 both orally and in writing. In addition, students must complete at least one full history per week in their own time to master these essential skills and these histories will be marked by tutors.

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

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

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

MICR3228
Microbiology for Medical Students
Staff Contact: Prof A. Lee
CP20 F HPW4

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

Assessment: This is based on mid-year and final examination as well as a 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 D. Wakefield
CP25 S1 HPW6 S2 HPW4

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

Assessment: Proficiency in the subject, sufficient to proceed to Year 4, will be assessed by mid-year and final examinations which will comprise 30% and 70% respectively of the total mark in Pathology. Both assessments will comprise theory and practical components.

PHPH3014
Medical Physiology 2
Staff Contact: A/Prof R. Holland
CP 20 F HPW4

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

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

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

PHPH3055
Medical Pharmacology
Staff Contact: A/Prof I. Neering and A/Prof D. Jamieson
CP25 F HPW4

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

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

Year 4

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

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

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

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

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

Rules of Progression

Students will be required to pass each of four separate segments of the assessment, namely: a pass in the Community Medicine continuous assessment, a pass in the

Pathology viva, a pass in a 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
CP120 F

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

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

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

Structured teaching during clinical weeks will be limited. There will be regular sessions each week which will feature a discussion, with a member of the Faculty, of the problems of patients on the student's ward. Pathology tutorials will be held each week, and one medical and one surgical lecture may be provided. The following skills are to be acquired during Year 4 or 6 of the course and the acquisition of such skills will be noted in the student's logbook after an appropriate examination: sterile technique; operating theatre procedures; cardiopulmonary resuscitation; intramuscular injection; use of ophthalmoscope; simple suture and knot-tying; application of a plaster; changing of a surgical dressing; passage of a proctoscope; passage of a naso-gastric tube; spirometry; establishment and maintenance of an intravenous line; venesection; rectal examination; urinalysis; urinary catheterisation.

Community Medicine will be taught primarily during the common campus weeks and will include case studies, lectures and tutorials on changing patterns of disease, prevention, epidemiology, nutrition and a range of other community health problems. Case studies based on clinical cases from students' hospital attachments will be used to explore core issues in Community Medicine. This will demonstrate the application of Community Medicine principles covered in lectures and tutorials and will also reinforce links with other teaching in Year 4. At Liverpool Hospital, Community Medicine teaching will make use of the special relationship of this Hospital to the community it serves.

Systematic Pathology will be taught at all Hospitals throughout the year and will be integrated with clinical teaching. The program includes one tutorial per week based on prepared clinical protocols (case presentations) which will explore the pathogenesis of those systematic diseases which were not covered in the context of Year 3 teaching in Pathology, or which require greater depth of coverage. Students will be required to prepare and expand on the topics listed, by reference to their own ward cases, by consultation with staff of the various departments in Pathology, as well as by reference to their recommended textbooks and specialised text or journal articles. Each student will be expected to attend a minimum number of autopsy demonstrations during the year. Additional exposure to Pathology will be attained by student attendance at Grand Rounds and Clinico-Pathological Conferences.

Campus Weeks: To minimise interruptions to a student's role while attached to a clinical team, most structured teaching will be carried out during campus weeks. All students will attend the University campus for five weeks throughout the year, during which lectures in Medicine, Surgery, Clinical Pharmacology, Pathology, and Community Medicine will be provided.

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

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

Assessment: A multiple choice examination and a short answer paper will be given at the end of the year and will examine knowledge of Medicine, Surgery, Community Medicine, Clinical Pharmacology and Pathology discussed during the campus program and from the directed reading

section in the syllabus. Assessment of Community Medicine will also involve continuous assessment by assignments through the year and the student's participation and contribution to group work. Assessment of Pathology will also involve the submission of a project report.

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

Year 5

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

The subjects studied in Year 5 are:

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

Sequence of Blocks

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

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

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

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

Assessment and Rules of Progression

The work of each rotating block is assessed during or towards the end of the block. Students will be required to pass in all four term examinations before progressing to the Year 6. Subject examiners may, in the time between the sitting of term assessments and the meeting of the Assessment Committee (normally Thursday of the term recess), require students to undertake further assesment. 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 under entry for Year 6.

Year 5 Subject Descriptions

MFAC5001
Geriatrics/General Practice/Subspecialties
Staff Contact: Prof M. Harris and Dr J. Frith
CP30

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

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

community nursing and hospice care; to stimulate thought concerning future directions for an ageing Australia.

The subject consists of tutorials and practical experience in a range of health care facilities.

Assessment: Students are assessed on written assessments and log book completion.

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

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

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

3. Skills in identifying common problems in general practice.

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

5. An understanding of rural general practice.

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

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

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

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

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

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

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

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

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

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

OBST5001
Obstetrics and Gynaecology
Staff Contact: Prof M. Bennett
CP30

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

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

Assessment: Continuing evaluation of clinical work, a written examination and an objective, structured clinical examination in the last week of term.

PAED5101
Paediatrics
Staff Contact: Prof H. Bode
CP30

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

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

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

PSCY5001
Psychiatry
Staff Contact: Prof G. Parker
CP30

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

Formal teaching seminars are held in the mornings and afternoons Monday to Friday in week 1 and mornings and afternoons Monday and Friday weeks 2-8. The remaining days are spent at Prince Henry, Prince of Wales, St George, St Vincent's, Sutherland, Liverpool and Campbelltown Hospitals, where small group tutorials, case conferences and video analyses are carried out with academic and clinical staff, and clinical experience is obtained. Attachments to liaison psychiatry teams are organised so that students receive the appropriate teaching of skills related to general hospital patients. Visits to appropriate community facilities and to the Forensic Psychiatry Unit at Long Bay Gaol are organised.

Assessment: A video examination is held in the fifth week to assess interviewing skills. A written examination is conducted on the first day of the last week of term, and viva voce examinations are carried out on the Tuesday and Wednesday of the same week. A liaison psychiatry report and two clinical case histories are also part of the assessment.

Year 6

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

Year 6 Subject Descriptions

MDSG6001
Integrated Clinical Studies 6
Staff Contact: Prof J. Dwyer
CP110

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

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

After the completion of Year 5, students complete an elective term. Time for this program is provided through the first weeks of Year 6. Students must report to the University in early March to commence the formal work associated with the Clinical Studies program for Year 6.

The next week of the year will involve a campus program similar to those presented in Year 4. Following that week, two further campus weeks will be 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 complete the year. For one of the six week terms, students will be attached to an emergency room and an intensive care unit at a Principal Teaching Hospital, or a selected 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 Year 6, providing their progress has been satisfactory.

As in Year 4, clinical attachments provide an opportunity for learning on the job and the steady increase in the responsibility for patient management will be given to students as their experience and proven performance suggests that this is appropriate. On the wards, a significant emphasis will be placed on mastering procedural skills, therapeutics and such practical matters as interaction with ancillary medical staff and discharge planning.

Assessment: For 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 vive voce examination and a Multiple Choice Examination involving questions related to medicine, surgery, community medicine and clinical pharmacology, based on the material presented during the campus week lectures in Year 6. All parts of this examination must be passed for graduation.

MFAC6001
Final Year Elective Term
Staff Contact: Prof W.E. Glover
CP10

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

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

Students are encouraged to consider commencing their elective term early by extending it over the period from the end of Year 5 to the end of the 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: Each student is required to produce a report which describes the nature of the work done during the Elective Term. This should be approximately 1000 words in length. The reports from the student and the supervisor must be submitted to the Faculty Office no later than the last day of the Elective Term. The reports are forwarded to the relevant Clinical Associate Dean for a decision as to whether the student has completed a satisfactory Term, and thence to the Assessment Committee. It is the student's responsibility to ensure that both reports (including the supervisor's report) are received by the due date and in time for consideration by the Assessment Committee.

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

3821
Combined Science and Medicine Course BSc MB BS

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

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

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

Course Details

The Science course is divided up into subjects each of which is assigned credit points. For the Science degree, 360 credit points are required. Students usually take 120 credit points in each year.

Year 1

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

Year 2

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

Year 3

The program must include at least two Level II Anatomy subjects and BIOC3261 Human Biochemistry. Under some circumstances one of the Anatomy or Biochemistry subjects may be taken in Year 2. The possible combinations are indicated in the following table. 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. Students must complete an Anatomy, Biochemistry or Physiology major. This requires students to take Level III subjects totalling at least 60 credit points.

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

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

Year 1
BIOS1101, BIOS1201
CHEM1101, CHEM120
PHYS1002 or PHYS1022
One of MATH1011 or MATH1131 or MATH1141 and one of MATH1021 or MATH1231 or MATH1241
General Education subject(s). One 56-hour or 2 x 28 hour subject(s).

Year 2
ANAT2111, ANAT2211,
BIOC2372
PHPH2112
Electives *
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 subjects
BIOC3261 Human Biochemistry
PSCY2201*
3 Electives

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

Anatomy and Biochemistry Double Major
PSCY2201*
4 Level III Anatomy subjects
BIOC3261 Human Biochemistry
2 additional Level III Biochemistry subjecs
1 elective

Anatomy and Physiology Double Major
4 Level III Anatomy subjects
BIOC3261 Human Biochemistry**
PHPH3121, PHPH3131, PHPH3211 and PHPH3221
PSCY2201*

Biochemistry Major
2 Level III Anatomy subjects
BIOC3261 Human Biochemistry
3 additional Level III Biochemistry subjects
PSCY2201*
2 electives

Biochemistry Double Major
Not available

Biochemistry and Physiology Double Major
1 Level III Anatomy subject
BIOC3261 Human Biochemistry
2 additional Level III Biochemistry subjects
PHPH3121, PHPH3131, PHPH3211 and PHPH3221
PSCY2201*

Physiology Major
2 Level III Anatomy subjects
BIOC3261 Human Biochemistry
PHPH3121, PHPH3131, PHPH3211 and PHPH3221
PSCY2201*
1 elective

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 of their major. Details are given in the Science Handbook. Enquiries should be directed to the head of the appropriate school.

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

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

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

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

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

Over a period of seven years, students will be required to fulfil the requirements of the BSc(Med) MB BS degree course (with the exception of General Education subjects in Year 1) as well as a minimum of 120 credit points in subjects offered by the Schools/Departments/Programs within the Faculty of Arts (including an approved major sequence).

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

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

Course Details

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

Year 1

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

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

Year 2

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

ANAT2007 Anatomy 2
BIOC2329 Medical Biochemistry and Genetics
PSCY2101 Human Behaviour*
Upper level Arts Major sequence plus additionl Arts subjects

Year 3

The Medicine subjects PHPH2018 Medical Physiology 1 and MDSG2001 Clinical Studies 2 must be taken in Year 3 plus upper level Arts subjects to complete the Arts major sequence and any other Arts subjects to complete the required number of credit points (ie. 120).

MDSG2001 Clinical Studies 2
PHPH2018 Medical Physiology 1
PSCY2101 Human Behaviour*
Upper level Arts major sequence plus additional Arts subjects

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

Year 4

Students join Year 3 of the Medicine course.

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

Intern Placement and Ranking of Students

Intern Placement and Registration

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

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

Internship: The Postgraduate Medical Council, 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 years. The medical school will take undergraduate performance into account in determining the length of deferment, and if it wishes may require the applicant to undertake some form of revision and/or assessment before the internship is allowed to commence.

2. Deferment of internship for more than two years.

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

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

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

Ranking Students for the Award of Honours and Intern Placement

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

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

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

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

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

5. In the calculation of the average weighted course mark for BSc MBBS students, the aggregate mark for the Science component is calculated as a weighted aggregate of all subjects counted towards the Science degree, except

General Education subjects. The subject weights are as follows:

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

Level II subjects weighted by 0.1875 per subject.
Level III subjects weighted by 0.25 per subject.
Level II/III subjects to be counted as Level II or Level III according to whether the student passed the subject in Second or Third Year.
Level IV subjects (Honours) not counted.

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

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

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

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

Award of Honours

1. The Faculty Year 6 Assessment Committee considers the ranked list of students and their marks and decides the cut-off marks for the award of honours at the various levels.

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

3. As a guide, the distribution of the awards of honours in 1994 was:

Class I Honours
Course Mark: 70.0%
Number of Awards: 20
% of graduands: 13.5

Class II Div. I
Course Mark: 67.5%-69.6%
Number of Awards: 18
% of graduands: 12.2

Class II Div. II
Course Mark: 65.1%-66.9%
Number of Awards: 22
% of graduands: 14.9

Intern Placement

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

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

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

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

Table 2. Year Weights

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

3831
Bachelor of Science (Medicine) Honours
BSc (Med) Hons

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

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

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

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

For candidates in the Courses 3801 and 3840

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

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

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

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

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

Assessment Guidelines

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

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

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

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

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

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.

ANAT1006 **Anatomy 1**	**Year 1**
ANAT2007 **Anatomy 2**	**Year 2**
BIOC1319 **Biochemistry for Medical Students**	**Year 1**
BIOC2329 **Medical Biochemistry and Genetics**	**Year 2**
CMED3001 **Medical Ethics and Health Law**	**Year 3**
MDSG2001 **Clinical Studies 2**	**Year 2**
MDSG3001 **Clinical Studies 3**	**Year 3**
MDSG4001 **Integrated Clinical and Community Studies**	**Year 4**
MDSG6002 **Integrated Clinical Studies 6**	**Year 6**
MFAC1001 **Introductory Clinical and Behavioural Studies**	**Year 1**
MFAC5001 **Geriatrics/General Practice/Subspecialties**	**Year 5**
MFAC6001 **Final Year Elective Term**	**Year 6**
OBST5001 **Obstetrics and Gynaecology**	**Year 5**
PAED5101 **Paediatrics**	**Year 5**
PATH3101 **Pathology**	**Year 3**
PHPH1004 **Biology for Medical Students**	**Year 1**
PHPH2018 **Medical Physiology 1**	**Year 2**
PHPH3014 **Medical Physiology 2**	**Year 3**
PHPH3055 **Medical Pharmacology**	**Year 3**
PSCY2101 **Human Behaviour**	**Year 2**
PSCY5001 **Psychiatry**	**Year 5**

Anatomy

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

ANAT2111
Introductory Anatomy
Staff Contact: Dr P. Pandey
CP15 F HPW6
Prerequisites: BIOS1101, BIOS1201

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

ANAT2211
Histology 1
Staff Contact: Dr A.Ansselin
CP15 F HPW3
Prerequisites: BIOS1101, BIOS1201
Corequisite: ANAT2111

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

ANAT3121
Visceral Anatomy
Staff Contact: Dr D. Fernando
CP15 S2 HPW6
Prerequisite: ANAT2111

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

ANAT3131
Functional Anatomy 1
Staff Contact: Prof D. Tracey
CP15 S1 HPW6
Prerequisite: ANAT2111

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

ANAT3141
Functional Anatomy 2
Staff Contact: Prof D. Tracey
CP 15 S2 HPW6
Prerequisite: ANAT3131

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

ANAT3211
Histology 2
Staff Contact: Dr B. Freeman
CP15 F HPW3
Prerequisite: ANAT2211
Note/s: Excluded: ANAT3220 (If ANAT3211 is taken after ANAT3220 total counts only 1 unit.)

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

ANAT3311
Mammalian Embryology
Staff Contact: Dr M. Smith
CP15 F HPW3
Corequisites: ANAT2211, ANAT2111

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

ANAT3411
Neuroanatomy 1
Staff Contact: Dr E. Tancred
CP15 S1 HPW6
Prerequisites: ANAT2211, ANAT2111

Provides overview of functional organisation of central nervous sytem. Topics covered include: nerve cells and glial cells; cytoarchitecture of brain and spinal cord. Functional anatomy of sensory and motor processing, and higher cerebral functions such as language and emotions. Blood supply of the central nervous system, cerebrospinal fluid and membranous coverings. Comparative anatomy of the brain.

ANAT3421
Neuroanatomy 2
Staff Contact: A/Prof P. Waite
CP15 S2 HPW3
Prerequisite: ANAT3411

Topics of contemporary neuroanatomy and neuroscience. Includes: sensory, motor, and associational areas of the cerebral cortex, cerebral asymmetry, hippocampus, regulatory centres of the brainstem, organisation 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 organised 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
CP120 F
Prerequisite: Completion of the first three years of any Science program with a major in Anatomy (see Table 3 of Science Handbook)

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

Biochemistry

BIOC2372
Biomedical Biochemistry
Staff Contact: A/Prof M. Edwards
CP30 F HPW6
Prerequisites: BIOS1011 and BIOS1021, CHEM1101 and CHEM1201 or CHEM1002
Note/s: Excluded BIOC2101, BIOC2201, 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.

BIOC3111
Molecular Biology of Proteins
Staff Contact: Dr G. King
CP15 S1 HPW 6
Prerequisites: BIOC2312 or BIOC2372 or BIOC2101 and BIOC2201
Note/s: Excluded 41.102, 41.102A.

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

provides experience with modern techniques of protein molecular biology.

BIOC3121
Molecular Biology of Nucleic Acids
Staff Contact:Dr V. Murray
CP15 S1 HPW 6
Prerequisites: BIOC2312 or BIOC2372 or BIOC2101 and BIOC2201
Note/s: Excluded 41.102, 41.102A.

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

BIOC3261
Human Biochemistry
Staff Contact: Dr A.S. Bagnara
CP15 S2 HPW6
Prerequisite: BIOC2312 or BIOC2372 or BIOC2101 and BIOC2201

This unit covers aspects of metabolism that are of particular relevance to the human. The major topics to be covered will be selected from: nutrition, exercise, neurochemistry, xenobiotics, nucleotide and one-carbon metabolism, genetic diseases and molecular aspects of parasitology. The role of triglyceride, cholesterol and lipoprotein metabolism in human health, and other selected areas of human nutrition. Exercise, the metabolic fuels utilized and the use of in vivo NMR to monitor changes in energy metabolism. Specialised aspects of endocrinology and neurochemistry including prostaglandins, leukotrienes, enkephalins and endorphins. The interrelation of purines, pyrimidines, folate and cobalamin metabolism in humans. Xenobiotics: the metabolism of foreign compounds by humans. Biochemical aspects of genetic disease including the use of recombinant DNA techniques for prenatal diagnosis and carrier detection. Molecular studies of malaria and other parasites of the human. Practical work to amplify the lectures.

BIOC3271
Cellular Biochemistry and Control
Staff Contact: A/Prof M. Edwards
CP15 S2 HPW6
Prerequisite: BIOC2312 or BIOC2372 or BIOC2101 and BIOC2201

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

BIOC3281
Recombinant DNA Techniques and Eukaryotic Molecular Biology
Staff Contact: A/Prof A. Mackinlay
CP15 S2 HPW6
Prerequisite: BIOC3121
Note/s: Excluded 41.132, 41.102E.

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

Biological Science

BIOS1101
Evolutionary and Functional Biology
Staff Contact: Dr M. Augee
CP15 S1 HPW6
Prerequisites: HSC Exam mark 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. Excluded: BIOS1021
Note/s: Prerequisites for BIO1101 are minimal (and may be waived on application to the Director). Practical and tutorial seat assignments must be obtained at the Biology Enrolment Centre on the day of enrolment. The course guide is available for purchase during enrolment week. Equipment required for practical classes is listed in the Course Guide and must be purchased before session starts. Students must consult it for details of the course and assessments.

The subject examines the evolutionary history of life on earth and the relationship between environment, adaptation and function. Animal and plant physiology are covered with an emphasis on adaptation to Australian environmental conditions.

BIOS1201
Molecules, Cells and Genes
Staff Contact: Dr M. Augee
CP15 S2 HPW6
Prerequisites: BIOS1101 or BIOS1021 (Students without this prerequisite may seek the permission of the Director to enrol.) Excluded: BIOS1301 and BIOS1011

The subject is concerned with the basic characteristics of life. The chemistry of life is covered with emphasis on the way in which living things construct and break down macromolecules. The way in which the genetic code controls these processes depends to a great extent on the structure and function of cell components, and cell biology is a major component of the subject. The final topic is genetics - the way in which the genetic code is inherited and the ways in which it can be modified.

BIOS2031
Biology of Invertebrates
Staff Contact: A/Prof P. Greenaway
CP15 S2 HPW6
Prerequisites: BIOS1011 or BIOS1101 and BIOS1021 or BIOS1201

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

BIOS2061
Vertebrate Zoology
Staff Contact: Dr M. Augee
CP15 S2 HPW6
Prerequisites: BIOS1011 and BIOS1101 and BIOS1021 or BIOS1201
Note/s: Practical class applications must be obtained during re-enrolment week from Room G20, Biological Science Building. For further details, see Faculty timetable.

Comparative study of the Chordata, with particular reference to the vertebrates, including morphology, systematics, evolution and natural history, with reference to selected aspects of physiology and reproduction. Practical work to supplement lectures. The course includes projects or field excursions. Field excursions may involve personal expenses.

Chemistry

CHEM1101
Chemistry 1A
Staff Contact: Dr P. Chia
CP15 S1 HPW6
Prerequisites: HSC mark range required: 2 unit Mathematics 55-100, or 3 unit Mathematics 1-50, or 4 unit Mathematics 1-100 and 2 unit Chemistry 53-100, or 3 unit Science 90-150, or 4 unit Science 1-50, or 2 unit Physics 53-100.

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

CHEM1201
Chemistry 1B
Staff Contact: Dr P. Chia
CP15 S2 HPW6
Prerequisite: CHEM1101

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
CP15 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
CP15 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
Human Biochemical Genetics
Staff Contact: Dr L.Y. C. Lai
CP15 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 characterisation. 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. Applicaton of statistical techniques to analyzing population data.

CMED8303
Human Genetics
Staff Contact: Dr L.Y.C. Lai
CP15 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.

CMED3111
Genetics of Behaviour
Staff Contact: Dr L. Lai
CP15 S1 HPW6
Prerequisite: BIOS1011

Principles of Mendelian, polygene and chromosomal genetics with examples from behavioural genetics. Emphasis on human behaviour in particular the genetics of mental retardation and psychiatric disorders. DNA technology in behavioural genetics. Practical classes aim at pedigree studies and the mathematical treatment of data.

Mathematics

MATH1011
General Mathematics 1B
Staff Contact: School of Mathematics First Year Office
CP15 S1 HPW6
Prerequisites: HSC mark range required: 2 unit Mathematics (60-100) or 2 and 3 unit Mathematics (1-150) or 3 and 4 unit Mathematics (1-200). (2 unit Mathematics in this instance refers to the 2 unit Mathematics subject which is related to the 3 unit Mathematics subject. It does not refer to the subjects Mathematics in Society or Mathematics in Practice. These numbers may vary from year to year.)
Note/s: Excluded MATH1032, MATH1042, MATH1131, MATH1141, ECON2200, ECON2201, ECON2202.

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

MATH1021
General Mathematics 1C
Staff Contact: School of Mathematics First Year Office
CP15 S2 HPW6
Prerequisite: MATH1011
Note/s: Excluded MATH1032, MATH1042, MATH1231, MATH1241, 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.

MATH1131
Mathematics 1A
Staff Contact: School of Mathematics First Year Office
CP15 S1 or S2 HPW6
Prerequisites: HSC mark range required: 2 unit Mathematics (90-100), or 2 and 3 unit Mathematics (100-150) or 3 and 4 unit Mathematics (100-200) or MATH1011 (these ranges may vary from year to year). 2 unit Mathematics in this instance refers to the 2 unit Mathematics subject which is related to the 3 unit Mathematics subject. It does not refer to the subjects Mathematics in Society or Mathematics in Practice.
Note/s: Excluded MATH1011, MATH1032, MATH1042, MATH1141, ECON2200, ECON2201, ECON2202.

Complex numbers, vectors and vector geometry, linear equations, matrices and matrix algebra, determinants. Functions, limits, continuity and differentiability, integration, polar coordinates, logarithms and exponentials, hyperbolic functions, functions of several variables. Introduction to computing and the Maple symbolic algebra package.

MATH1231
Mathematics 1B
Staff Contact: School of Mathematics First Year Office
CP15 S2 HPW6 or Summer Session HPW9
Prerequisite: MATH1131 or MATH1141
Note/s: Excluded MATH1021, MATH1032, MATH1042, MATH1241, ECON2200, ECON2201, ECON2202.

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

MATH1141
Higher Mathematics 1A
Staff Contact: School of Mathematics First Year Office
CP15 S1 HPW6
Prerequisites: HSC mark range required: 2 and 3 unit Mathematics (145-150) or 3 and 4 unit Mathematics (186-200) (these numbers may vary from year to year).
Note/s: Excluded MATH1011, MATH1032, MATH1042, MATH1131, ECON2200, ECON2201, ECON2202.

As for MATH1131 but in greater depth.

MATH1241
Higher Mathematics 1B
Staff Contact: School of Mathematics First Year Office
CP15 S2 HPW6
Prerequisite: MATH1131 or MATH1141, each with a mark of at least 70.
Note/s: Excluded MATH1021, MATH1032, MATH1042, MATH1231, ECON2200, ECON2201, ECON2202.

As for MATH1231 but in greater depth.

Medicine

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

MDCN8001
Principles of Medicine for Optometry Students
Staff Contact: A/Prof L. Simons (St Vincent's Hospital)
CP5 F HPW1
Note/s: Students normally take the subject in Year 4 of course 3950.

An overview of historical, epidemiological, pathophysiological, diagnostic, therapeutic and public health aspects of disease in humans 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: Dr N. Hawkins
CP15 F HPW3
Prerequisites: ANAT2211, ANAT2111, PHPH2112 or equivalent

Lectures, tutorials 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 is 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
CP30 F HPW6
Prerequisites: BIOS1101, BIOS1201; CHEM1101 and CHEM1201; MATH1131 or MATH1141 or MATH1011; MATH1231 or MATH1241 or MATH1021.
Corequisites: Either BIOC2101 and BIOC2201, or BIO2372
Note/s: 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 specialised systems in the body, for example, the cardiovascular system; the respiratory system; the gastrointestinal system; the endocrine system; the nervous system. Includes a substantial series of practical class experiments on these different areas of physiology. This subject is taken by students enrolled in any of the Physiology programs.

PHPH2122
Principles of Physiology (Optometry)
Staff Contact: Dr J. Morley
CP30 F HPW6
Note/s: Restricted to course 3950.

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

PHPH3121
Membrane and Cellular Physiology
Staff Contact: Prof P. Barry
CP15 S1 HPW6
Prerequisites: PHPH2112, BIOC2101 and BIOC2201 or BIOC2372.
Note/s: 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 the mechanisms underlying muscle contraction. Stress on modern research techniques, underlying principles of molecular physiology and on a critical examination of appropriate research papers.

PHPH3131
Neurophysiology
Staff Contact: Prof M. Rowe
CP15 S1 HPW6
Prerequisites: PHPH2112, BIOC2101 and BIOC2201 or BIOC2372.
Note/s: 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.

PHPH3152
Pharmacology
Staff Contact: A/Prof G. Graham
CP30 F HPW6
Prerequisites: PHPH2112, BIOC2101 and BIOC2201 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 work complements the lecture program by demonstrating a variety of basic pharmacological techniques.

PHPH3211
Cardio-respiratory and Exercise Physiology
Staff Contact: A/Prof M. Perry
CP15 S2 HPW6
Prerequisites: PHPH2112 and either BIOC2101 and BIOC2201, or BIOC2372

An advanced course which emphasises function and control of the cardiovascular system; gas exchange in the lung and blood gas carriage in the respiratory system and work capacity, preventive medicine and laboratory testing in exercise physiology. Extensive practical components involve mammalian preparations and human subjects.

PHPH3221
Endocrine, Reproductive and Developmental Physiology
Staff Contact: Prof E.R. Lumbers
CP15 S2 HPW6
Prerequisites: PHPH2112 and either BIOC2101 and BIOC2201, or BIOC2372

There are three major components to this subject, which consists of lectures, practical classes, tutorial and case studies. The first component of the course is a study of neuroendocrinology, molecular and systematic endocrinology, and of the endocrinology of exercise and disease. The second component of the subject deals with female and male reproductive physiology. The third component of the subject details the physiology of pregnancy, and that of the fetus and the newborn.

PHPH4218
Physiology 4 Honours - Full Time
Staff Contact: Dr D. Garlick
CP120

PHPH4224
Physiology 4 Honours - Part Time
Staff Contact: Dr D. Garlick
CP60
Note/s: Completion of program 7300 including 7 level III units, 4 of which must be Physiology.

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

PHPH4258
Pharmacology 4 Honours - Full Time
Staff Contact: Dr D. Garlick
CP120

PHPH4264
Pharmacology 4 Honours - Part Time
Staff Contact: Dr D. Garlick
CP60
Note/s: Completion of program 7301 including 7 Level III units.

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

Physics

PHYS1002
Physics 1
Staff Contact: First Year Director
CP30 F HPW6
Prerequisites: HSC mark range required: 2 unit Mathematics 90-100, or 3 unit Mathematics 1-50, or 4 unit Mathematics 1-100 or (for PHYS1002 only) MATH1011, and 2 unit Science (Physics) 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: One of MATH1011 or MATH1131 or MATH1141 and one of MATH1021 or MATH1231 or MATH1241

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

PHYS1022
Physics 1 (For Health and Life Scientists)
Staff Contact: First Year Director
CP30 F HPW6
Corequisites: One of MATH1011 or MATH1131 or MATH1141 and one of MATH1021 or MATH1231 or MATH1241

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

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

Psychiatry

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

PSCY2201
Human Behaviour
Staff Contact: Dr P. Ward
CP15 F HPW3

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

Graduate Enrolment Procedures

All students enrolling in postgraduate courses should obtain a copy of the free booklet *Re-enrolling 1996* 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 enrolment details. Students interested in undertaking a postgraduate course should consult the appropriate Head of School or the Postgraduate Section (through the Admissions Office in the Chancellery).

Graduate Courses

At the postgraduate level, study may be undertaken for the award of the following degrees:

Doctorates
Doctor of Medicine (MD)
Doctor of Philosophy (PhD)

Masters
Master of Clinical Education (MClinEd)
Master of Community Health (MCH)
Master of Community Paediatrics (MCommPaed)
Master of Health Personnel Education (MHPEd)
Master of Medicine (MMed)
Master of Psychological Medicine (MPM)
Master of Public Health (MPH)
Master of Science
Master of Sports Medicine (MSpMed)
Master of Surgery (MS)

Graduate Diplomas
Graduate Diploma in Clinical Education (GradDipClinEd)
Graduate Diploma in Community Paediatrics (GradDipCommPaed)
Graduate Diploma in Health Personnel Education (GradDipHPEd)
Graduate Diploma in Paediatrics (GradDipPaed)
Graduate Diploma in Pharmaceutical Sciences (GradDipPharmSc)
Graduate Diploma in Sports Medicine (GradDipSpMed)

Graduate Certificate
Graduate Certificate in Pharmaceutical Sciences (GradCertPharmSc)

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

Advice to Graduate Students on Computing Requirements

Students are advised that satisfactory completion of postgraduate programs does not require enrolled students to purchase a personal computer.

Course Outlines

St.Vincent's Clinical School

A Master of Pharmaceutical Sciences is planned for introduction in 1997.

5504
Graduate Diploma in Pharmaceutical Sciences

GradDipPharmSc

The discovery, development and marketing of medicines has become a highly organised interdisciplinary team activity. Members of such teams need to be literate in all aspects of drug development ranging from procedures for identifying lead compounds through to the full development of the product including preclinical studies, clinical trials and the legal, regulatory and ethical issues relevant to marketing the medicine. The aim of this course is to enable people working in the field of developing and using pharmaceutical substances to obtain such literacy by providing core and elective materials in a distance-learning format. Since interchange of ideas is an essential part of any educational activity, the course will also include interactive assignments with specific tutors, and group discussions where students come together for tutorials, workshops and practice sessions, and generally to interchange ideas.

The Graduate Diploma in Pharmaceutical Sciences will be awarded to students who successfully complete the following course. The course is offered as a part-time distance learning program and will take a minimum of two years to complete. The course is designed for persons wishing to pursue careers that relate to the development and safe use of medicines. Career opportunities exist in the pharmaceutical manufacturing industry, government and in research institutions such as universitites. Health care professionals interested in developing new medicines and improving the use of existing medicines will find the course of value. The extensive range of electives enables the candidate to specialise in particular areas such as the discovery of new medicines; regulatory affairs; clinical trials; market development; medical department administration; preclinical studies, etc.

To fulfil the course requirements, students must satisfactorially complete all of the core subjects as well as electives totalling 30 credit points.

Core Subjects

Year 1		**CP**
MDCN9100	Discovery and Development of New Medicines 1	15
MDCN9101	Principles of Drug Action	15
MDCN9103	Clinical Trials and Data Analysis	15
MDCN9104	Law, Ethics and the Regulation of the Development and Use of Medicines	15
Year 2		
MDCN9102	Pharmaceutical Formulation 1	15
MDCN9105	Safety of Medicines 1	7.5
MDCN9106	Pharmaceutical Information Services 1	7.5
Electives		30

Electives

MDCN9107	Discovery and Development of New Medicines 2	15
MDCN9108	Pharmaceutical Forumulation 2	15
MDCN9109	Clinical Pharmacology	15
MDCN9110	Advanced Pharmacokinetics	15
MDCN9111	Clinical Epidemiology and Sociometric Studies	15
MDCN9112	Health Care Economics and Market Research	15
MDCN9113	Pathophysiology	7.5
MDCN9114	Safety of Medicines 2	15
MDCN9115	Medical Devices	7.5
MDCN9116	Advanced Regulatory Affairs	15
MDCN9117	Pharmaceutical Information Services 2	7.5
MDCN9118	Pharmaceutical Company Management 1 (General)	7.5
MDCN9119	Pharmaceutical Company Management 2 (The Medical Department)	7.5
MDCN9120	Pharmaceutical Company Management 3 (Staff Training and Development)	7.5
MDCN9121	Operation of Regulatory Agencies (Pharmaceutical Substances)	7.5

Notes:

1. The availability of elective modules may be subject to a minimum number of enrolments.

2. The subject description for the Electives (MDCN9107-MDCN9121) will appear in the 1997 Faculty of Medicine Handbook.

3. Students are advised to select electives that make an integrated theme according to their individual interests (e.g. regulatory affairs; clinical trials; market development; medical department administration; preclinical studies, etc).

4. Electives may also be chosen from the list offered in the Master of Applied Science in Biopharmaceuticals.

7370
Graduate Certificate in Pharmaceutical Sciences

GradCertPharmSc

The Graduate Certificate in Pharmaceutical Sciences will be awarded to students who successfully complete the following course work. This course has similar format and objectives to the Graduate Diploma but is designed for those people who wish to obtain a limited competency in the areas described. The course is offered as a part time distance learning program and will take a minimum of one year to complete.

		CP
MDCN9100	Discovery and Development of New Medicines 1	15
MDCN9101	Principles of Drug Action	15
MDCN9104	Law, Ethics and the Regulation of the Development and Use of Medicines	15
MDCN9103	Clinical Trials and Data Analysis	15

School of Community Medicine

The School offers a program of study leading to the award of the degree of Master of Community Health 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 during the course.

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

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

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

9020
Master of Community Health By 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 course work subjects to a total of 120 credit points (five credit points are equivalent to one class contact hour per week). These must include all three subjects in Group A and at least one of the subjects in Group B. The major project is equivalent to 60 credit points.

Group A

		CP
CMED9500	Epidemiology	15
CMED9513	Applied Epidemiology	10
HEAL9061	Statistics for Public Health	15

Group B

CMED9517	Advanced Biostatistics and Statistical Computing	10
CMED9518	Case Studies in Epidemiology	10
CMED9519	Demography	10

Academic Electives

		CP
CMED9100	Independent Studies	10
CMED9516	Introduction to Public Health	10
CMED9600	Disability	10
CMED9602	Health and Illness Behaviour	10
CMED9603	Communication and Writing in Health	10
CMED9604	Tobacco, Alcohol and Other Drug Issues	10
CMED9605	Health in Developing Countries	10
CMED9606	Women and Health	10
CMED9607	Researching Women's Health	10
CMED9608	Rural Health Studies 1	10
CMED9609	Community Genetics	10
CMED9610	Community Nutrition	10
CMED9611	Health of the Elderly	10
CMED9612	Environmental Health	10
CMED9613	Health and Public Policy	10
CMED9614	Genetic Epidemiology	10
CMED9615	Primary Health Care	10
CMED9617	Community Paediatrics	10
CMED9618	Public Health Law and Ethics	10
CMED9619	Evaluation of Primary Health Services	10
CMED9620	Project Management and Evaluation in Rural Areas	10
CMED9621	HIV/AIDS: Challenging and Changing Health Care Systems	10
CMED9622	Prevention	10
CMED9623	Health Informatics in Primary Care	10
CMED9624	Mass Media in Public Health	10
CMED9625	Advanced Research Methods in Health Promotion	10
CMED9626	Inequalities and Health	10
CMED9627	Audit and Quality Assurance in Primary Care	20

The research project, CMED9504 Major Project, may be undertaken in the following areas: prevention and health promotion; primary health care; health of particular population groups; occupational and environmental health; epidemiology; health of the elderly; disability and rehabilitation; alcohol, smoking and drug dependence; health services and evaluation; community mental health; or in a field approved by the head of the school.

2815
Master of Medicine (Geriatrics) by Research

MMed

Intending students should consult the Faculty Administration Office for further information.

9025
Master of Medicine (Geriatrics) by Formal Course Work

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).

Masters degree candidates must achieve 60 credit points plus 140 hours (50 credit points) of supervised clinical experience. Five credit points are 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, CMED9535 Major Research Project, equivalent to 70 credit points.

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

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 sessions when they attend lectures, whereas the part-time candidates will carry out this work over four sessions.

Projects: The Major Research Project, CMED9535, is equivalent to 70 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.

All subjects are compulsory.

		CP
CMED9530	Organisation and Delivery of Health Services	10
CMED9531	Gerontology	10
CMED9533	Psychogeriatrics and Pharmacology	10
CMED9534	Rehabilitation and Health Promotion	10
CMED9535	Major Research Project	70
CMED9536	Supervised Clinical Experience	50
CMED9538	Clinical Geriatrics I	20
Oral long-case examination		
Total		180

School of Medical Education

The School offers programs of study either by research or by formal course work leading to the awards of the following degrees:

Master of Clinical Education

Master of Health Personnel Education

Graduate Diploma in Clinical Education

Graduate Diploma in Health Personnel Education

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 during the course.

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

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

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 the four nominated subjects listed below, plus additional academic electives and/or independent studies to give a total of 120 credit points. Five credit point are equivalent to one class contact hour per week.

Core Subjects

Session 1		CP
MEED9101	Learning and Teaching	10
MEED9104	Organisation and Management	10
Session 2		
MEED9105	Educational Planning	10
MEED9108	Program Evaluation and Planned Change	10

Academic Electives

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

Session 1		
MEED9012	Health Promotion	10
MEED9101	Learning and Teaching	10
MEED9102	Educational Process in Small Groups	10
MEED9103	Instructional Design	10
MEED9104	Organisation and Management	10
MEED9106	Teaching Skills	10
MEED9110	Workshop in Culture, Subculture and Communication	10
MEED9120	Qualitative Research Methods in Health Promotion	10
MEED9122	Primary Health Care	10
MEED9124	Clinical Teaching	5
MEED9125	Planning, Conducting and Evaluating Educational Workshops	10
MEED9127	Research in Education for the Health Professions	10
Session 2		
MEED9010	Community Development	10
MEED9012	Health Promotion	10
MEED9013	Influencing Health Beliefs and Health Behaviour	10
MEED9014	Communication and Educational Skills for Community Health Workers	10
MEED9105	Educational Planning	10
MEED9107	Assessment of Students	10
MEED9108	Program Evaluation and Planned Change	10
MEED9111	The Consultation Process	10
MEED9112	Management of Human Resources in Health	10
MEED9113	Evaluation of Instructors	10
MEED9115	Educational Selection	5
MEED9121	Large Group Teaching	10
MEED9123	Production of Audio Visual Materials	10
MEED9126	Selfdirected Learning and Self-instruction	10
MEED9128	Research in Education for the Health Professions 2	10
MEED9129	Primary Health Care: Issues in Implementation	10
MEED9109	Project	60

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 in Clinical Education By Distance Education

GradDipClinEd

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

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

The degree of Master of Clinical Education will be awarded after satisfactory completion of a program of advanced study of 120 credit points and submission of a satisfactory major project report based on at least one semester of applied development or research in clinical education.

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

Subjects to be offered within the distance education programs are:

		CP
MEED9302	Learning in Small Groups	10
MEED9303	Clinical Practice as a Discipline	10
MEED9304	Learning Clinical Reasoning	15
MEED9305	Learning from Experience	10
MEED9306	Clinical Supervision	10
MEED9307	Exploring Clinical Ethics	10
MEED9308	Learning Clinical Decision Making	10
MEED9309	Assessment of Clinical Performance	10
MEED9310	Evaluation of Clinical Teaching	10
MEED9311	Patient and Family Education	10
MEED9312	Research into Clinical Education	10
MEED9313	Planning Educational Programs	10
MEED9314	The Ward (or Office) as a Social and Learning Environment	10
MEED9315	Clinical Teaching	15
MEED9316	Learning Consulting Skills	15
MEED9317	Clinicians as Managers	10
MEED9351	Independent Study (5 credit points)	5
MEED9352	Independent Study (10 credit points)	10
MEED9353	Independent Study (15 credit points)	15
MEED9354	Independent Study (20 credit points)	20
MEED9360	Major Project	60

The Centre for Public Health

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

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

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

2845
Master of Public Health by Research

MPH

Students applying for admission to the MPH by research are required to have a suitable first degree and are normally expected to have considerable experience in their proposed field of study witin the health or hospital services. It can be undertaken full-time or part-time; through internal or extenal mode.

9045
Master of Public Health by Course Work

MPH

The Master of Public Health course provides preparation for education, research and service in all aspects of public health. The course includes study in epidemiology, quantitative and qualitative research methods, health services management, health promotion, development and education in health, as well as a systematic review of topical public health issues. It is designed to address the continuing education needs of specialists in public health as well as providing a general orientation to public health issues and methods for the health professions.

Applicants are required to have completed a minimum 3 year degree in a health-related discipline and to have experience in a health or health-related field.

Course Structure
The MPH course is offered in a full-time (minimum three academic sessions), part-time (minimum five academic sessions) and external* (minimum five academic sessions) modes.

The course is divided into three equal components, for a total of 180 credit points. These components are:

Core subjects	60 credit points
Elective subjects	60 credit points
Major project	60 credit points

In selecting elective subjects; students can choose among areas of concentration related to their expected field of work (e.g. Health Promotion); can choose to undertake advanced study in a particular discipline (e.g. Health Policy and Management); and/or can take elective subjects relevant to their own interests and needs.

Core Subjects
The first component comprises of the five core subjects. Students must complete the following five subjects as a foundation for further study. These core subjects are prerequisites for enrolment in many of the electives.

		CP
CMED9500	Epidemiology	15
CMED9516	Introduction to Public Health	10
MEED9012	Health Promotion	10
HEAL9061	Statistics for Public Health	15
HEAL9751	Introduction to Management and Policy for Public Health	10

Elective Subjects
The second component comprises the elective subjects. There are over 70 subjects offered in the three schools at the University of New South Wales. In addition, students may enrol in electives which are offered by other schools and academic units within the University of New South Wales, as well as subjects offered in the Department of Public Health at the University of Sydney (with special permission). Students may elect to undertake independent studies in any of the three Schools, to learn about a particular area or subject matter of special interest which is not offered in the formal program (CMED9100/1/2/4, HEAL9921/31/41, MEED9001/2/3/4).

The following elective subjects are offered in 1996:

School of Community Medicine

CMED9513	Applied Epidemiology	10
CMED9517	Advanced Biostatistics and Statistical Computing	10
CMED9518	Case Studies in Epidemiology	10
CMED9519	Demography	10
CMED9520	Introductory Statistical Computing and Statistical Epidemiology	10
CMED9600	Disability	10
CMED9602	Health and Illness Behaviour	10
CMED9603	Communicating and Writing in Health	10
CMED9604	Tobacco, Alcohol and Other Drug Issues	10
CMED9605	Health in Developing Countries	10
CMED9606	Women and Health	10
CMED9607	Researching Women's Health	10
CMED9608	Rural Health Studies	10
CMED9609	Community Genetics	10
CMED9610	Community Nutrition	10
CMED9611	Health of the Elderly	10
CMED9612	Environmental Health	10
CMED9613	Health and Public Policy	10
CMED9614	Genetic Epidemiology	10
CMED9615	Primary Health Care	10
CMED9617	Community Paediatrics	10
CMED9619	Evaluation of Primary Health Services	10
*CMED9620	Project Management and Evaluation in Rural Areas	10
CMED9621	HIV/AIDS Challenging and Changing Health Care Systems	10
CMED9622	Prevention	10
CMED9623	Health Informatics in Primary Care	10
CMED9624	Mass Media in Public Health	10
CMED9625	Advanced Research Methods in Health Promotion	10
CMED9626	Inequalities and Health	10
*CMED9627	Audit and Quality Assurance in Primary Care	20

		CP
School of Medical Education		
MEED9010	Community Development	10
*MEED9013	Influencing Health Beliefs and Health Behaviours	10
MEED9101	Learning and Teaching	10
MEED9102	Educational Process in Small Groups	10
MEED9103	Instructional Design	10
MEED9104	Organisation and Management	10
MEED9105	Educational Planning	10
MEED9106	Teaching Skills	10
MEED9107	Assessment of Students	10
MEED9108	Program Evaluation and Planned Change	10
MEED9110	Workshop in Culture, Subculture and Communication	10
MEED9111	The Consultation Process	10
MEED9112	Managing Human Resources in Health	10
MEED9113	Evaluation of Instuctors	10
MEED9115	Educational Selection	5
MEED9120	Qualitative Research Methods in Health Promotion	10
MEED9122	Primary Health Care	10
MEED9123	Production of Audio-visual Materials	10
MEED9124	Clinical Teaching	5
MEED9125	Planning, Conducting, Evaluating Educational Workshops	10
MEED9126	Self Directed Learning and Self Instruction	10
MEED9127	Research in Education for Health Professions 1	10
MEED9128	Research in Education for Health Professions 2	10
MEED9129	Primary Health Care; Issues in Implementation	10
School of Health Services Management**		
*HEAL9041	Health Care Systems	10
*HEAL9071	Accounting and Financial Management 1	10
*HEAL9081	Accounting and Financial Management 2	10
*HEAL9301	Health Services Planning 1	10
*HEAL9331	Health Services Law 1	10
*HEAL9341	Health Services Law 2	10
*HEAL9351	Health Economics	10
*HEAL9381	Policy Studies	10
HEAL9511	Special Topic in Health Administration Planning	10
*HEAL9701	Management of Work	10
*HEAL9711	Management of Organisations	10
*HEAL9741	Management of Health Services	10
HEAL9743	Introduction to Casemix	10
HEAL9744	Casemix Accounting and Funding	10
*HEAL9811	Sociology, Ethics and Health	10

**These subjects are also available in distance education mode.*

***Elective subjects undertaken through the School of Health Sevices Management by candidates of the Master of Public Health will be allocated a value of 10 credit points each.*

Major Project
The third component of the MPH course is the major project. The major project comprises in-depth study of a contemporary public health issue. Students are expected to demonstrate their ability to apply knowledge and skills gained in the course. It is normally undertaken in the third full-time (or part-time equivalent) session, that is, after completion of all core and elective subjects. Provisional topics for the (CMED9504, MEED9109, HEAL9971) major project will be determined in consultation with an academic adviser early in the course.

School of Paediatrics

5500
Graduate Diploma in Paediatrics

GradDipPaed

The course is taken over 1 year on a part-time basis. Candidates attend a course of lectures and grand rounds (approximately 1 hour per week) and a two hour clinical session fortnightly.

The Graduate Diploma is awarded after satisfying the examiners in written and clinical examinations at the end of the course.

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

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

		CP
PAED9100	General Paediatrics and Child Health	48
PAED9104	Clinical and Technical Skills	12
PAED9105	Clinical Paediatric Experience 1	-

Students should note that if they have to repeat the year due to failure in one or more subjects, they must enrol in and satisfactorily complete all subjects in order to qualify for the Graduate Diploma.

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

5505
Graduate Diploma in Community Paediatrics

GradDipCommPaed

This course is designed for health professionals such as medical practitioners, nurses, psychologists, physiotherapists, social workers, who provide services to children. Candidates are required to hold a relevant

Bachelor's Degree of three year's duration or equivalent prior to enrolment in the course. The course is aimed to equip candidates with an understanding of health needs of children in the community.

The Graduate Diploma in Community Paediatrics will be awarded after satisfactory completion of a programme of advanced study of the following 8 subjects which totals 110 credit points:

		CP
HEAL9061	Statistics for Public Health	15
PAED8101	Physical Growth and Development	20
PAED8102	Psychosocial Development	10
PAED8103	Child Health Services	10
PAED8104	The Effect of Social Adversity in Children	10
PAED8105	The Child and the Law	10
PAED8106	Infant Feeding and Nutrition	20
CMED9500	Epidemiology	15

9015
Master of Community Paediatrics

MCommPaed

The degree of Master of Community Paediatrics will be awarded after satisfactory completion of a programme of advanced study of subjects which totals 170 credit points of which 110 credit points will be from the 8 major subjects prescribed for the Graduate Diploma in Community Paediatrics together with a major project report based on six months of research or clinical case studies in community paediatrics, an elective and an advanced study in growth and development. The project is planned during the period of formal coursework.

PAED8107	Elective	20
PAED8108	Major Project	10
PAED8109	Physical Growth and Development II	30

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 and the Master of Applied Science in Biopharmaceuticals (in conjunction with the School of Biotechnology, Faculty of Applied Science).

9055
Master of Sports Medicine

MSpMed

5503
Graduate Diploma in 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 total 150 credit points of which 120 credit points will be from eight subjects (six compulsory, two elective) each of 15 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 (30 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 120 credit points from eight subjects (five compulsory, three elective) each of 15 credit points together with completion of a Sports Medicine Practicum consisting of a two-week residential period of clinical activities and clinical examinations.

		CP
Compulsory subjects		
PHPH5413/5513	Sports Injuries I	15
PHPH5423/5523	Sports Injuries II	15
PHPH5433/5533	Medical Applications of Exercise I	15
PHPH5443/5543	Medical Applications of Exercise II	15
PHPH5414/5514	Sports Science	15
PHPH5424	Research Methods (only for MSpMed)	15
PHPH5445	Major Project (only for MSpMed)	30
Elective Subjects:		
PHPH5434/5534	Sports Injuries III	15
PHPH5444/5544	Medical Applications of Exercise III	15
PHPH5415/5515	Sports Psychology	15
PHPH5425/5525	Sports Pharmacology	15
PHPH5435/5535	Sports Nutrition	15
Further Activities		
Sports Medicine Practicum		15

8043
Master of Applied Science in Biopharmaceuticals

MAppSc in Biopharmaceuticals

This is an interdisciplinary program designed principally for postgraduates with backgrounds in either pharmacology or biotechnology who wish to obtain advanced training in both areas in order to gain expertise necessary for the development and use of the new generation of biopharmaceuticals which have been developed by, or result from, the application of molecular biology.

It is open to postgraduates with a four year degree in a related discipline or who have, in the opinion of the Higher Degree Committee, acquired equivalent qualifications or experience. Prior study of biochemistry is required for the course.

The course consists of lectures, tutorials, practical sessions, case history studies and a supervised project. The minimum period of registration before the award of the degree is two sessions for full-time students and four sessions for part-time students. In 1996 the course will also be offered for part-time study by distance education.

An acceptable course would be a program of subjects involving a minimum of 18 hours per week for two sessions for full-time students or a minimum of 9 hours per week for four sessions for part-time students. Choice of units is dependent on the background of the student. Pharmacology Principles (PHPH5461) must be taken by students who have not completed an approved Pharmacology course, while Biotechnology Principles (BIOT7040) must be taken by students who have not completed an approved Biotechnology course program.

All students must pass Advanced Pharmacology (PHPH5471) and Advanced Biotechnology (BIOT7030). Course details are as follows:

		CP
PHPH5471	Advanced Pharmacology	24
BIOT7030	Advanced Biotechnology	24
PHPH5461	Pharmacology Principles	32
BIOT7040	Biotechnology Principles	32
BIOT7050	Biopharmaceuticals Project (Major)*	64
BIOT7060	Biopharmaceuticals Project (Minor)*	32
PHPH5481	Major Project Pharmacology *	64
PHPH5491	Minor Project Pharmacology *	32

**Choose one project only.*

A recommended program for full-time students with a Biotechnology background would then be:

PHPH5471	Advanced Pharmacology	24
BIOT7030	Advanced Biotechnology	24
PHPH5461	Pharmacology Principles	32
BIOT7050	Biopharmaceuticals Project (Major)	64
or		
PHPH5481	Major Project Pharmacology	64
Total		**144**

A recommended program for full-time students with a Pharmacology background would then be:

		CP
PHPH5471	Advanced Pharmacology	24
BIOT7030	Advanced Biotechnology	24
BIOT7040	Biotechnology Principles	32
BIOT7050	Biopharmaceuticals Project (Major)	64
or		
PHPH5481	Major Project Pharmacology	64
Total		**144**

Elective Components
If a minor project is selected, additional elective subject(s) may be selected from those offered by the Department of Biotechnology or the School of Physiology and Pharmacology, or from those offered by other Schools in the University subject to approval.

Each individual course must be approved by the Higher Degree Committee of the Faculty of Applied Science and would comprise: (i) a major strand of related material comprising approximately 75% of the total program including a project comprising not less than 15% of the program (ii) a minor strand of broader based material comprising up to 25% of the total program.

School of Psychiatry

9031
Master of Psychological Medicine

MPM

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

Nominated Subjects

		CP
Year 1		
Session 1		
PSCY9106	Psychological Medicine 1	25
Session 2		
PSCY9107	Psychological Medicine 2	25
Year 2		
Session 1		
PSCY9208	Psychological Medicine 3	25
Session 2		
PSCY9209	Psychological Medicine 4	25
Sessions 1 & 2		
PSCY9210	Project Report	25

Subject Descriptions

School of 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.

St.Vincent's Hospital Clinical School

MDCN9100
Discovery and Development of New Medicines 1
Staff Contact: Prof P. Brooks
CP15 S1

Development of new medicines: history and philosophy of development of new medicines. Process of discovery: screening/molecular modelling resulting in identification of lead compounds. Refinement of lead compounds, biological testing in laboratory animals, tissues or tissue components. Choice of chemical entity for further development and identification of back-up compounds. Preclinical studies of selected compound: the value and limitations of animal models in predicting clinical efficacy and potential adverse effects: mechanism of action, screening for total biological effects, toxicology. Factors involved in choosing compounds for clinical development: scientific merit, medical utility, uniqueness, commercial value, compatability with company strategies, facilities available for development. Selection of back-up compound. Project management: identification of commercial/medical objectives , preclinical issues, clinical development strategies. Company strategies: decision path analyses, resources, time-lines. Clinical trial program: phases 1, 2, 3 and 4. Clinical research plan: time-lines, study designs, dose-ranging, choice of test populations, indications, trial locations, data treatment, Go/No Go criteria.

MDCN9101
Principles of Drug Action
Staff Contact: Prof P. Brooks
CP15 S1

This subject provides a general overview of pharmacodynamics and pharmacokinetics including the following topics. The dose-response relationship as a function of pharmacokinetics and pharmacodynamic properties. Qualitative discussion of the factors involved in determining pharmacokinetic properties: routes of administration, formulation, absorption, distribution, elimination (metabolism and excretion). Quantitative investigation of pharmacokinetic variables (bioavailability, volume of distribution, clearance, half-lives, etc). The use of pharmacokinetic variables in dosage optimisation. Qualitative discussion of pharmacodynamic mechanisms: specific and non-specific mechanisms. Receptors and signal transduction. Agonists, partial agonists and antagonists. Quantitative investigation of drug-receptor interactions. The influence of non-drug factors (disease states, age, genetics, etc) on pharmacokientic and pharmacodynamic parameters, and hence on the dose-response relationship.

MDCN9102
Pharmaceutical Formulation 1
Staff Contact: Prof P. Brooks
CP15 S2
Note/s: Not available in 1996.

The manufacture of new compounds, the choice of formulations and pharmaceutical labelling. The influence of pharmacokinetics and pharmacodynamics on product development. Methods of testing for bioequivalence, stability, impurity and incompatibility. Formulation for toxicology and for quality control. Preparation of materials for clinical trials including distribution and disposal of remaining stock. Long-term stability studies. Principles of labelling for clinical use. Problems associated with scaling pilot syntheses and product fabrication to large-scale production.

MDCN9103
Clinical Trials and Data Analysis
Staff Contact: Prof P. Brooks
CP15 S2

Principles of clinical epidemiology and clinical trial design. Purpose and fundamentals of statistics and data management. Biological variability of measures. Interpretation: distribution, averages, normal. Appropriateness of statistical tests. Testing the null hypothesis: statistical significance; type 1 and type 2 errors and power calculations. Interpretation. Data management. Critical appraisal. Scientific issues in the design and conduct of clinical trials: statement of hypothesis, choice of endpoints, selection of subjects (number, inclusion, exclusion), randomization, controls, statistical power (type 1 and 2 errors). Trial design: parallel, cross-over, longitudinal, other. Importance of early statistical input in trial design. Efficacy, effectiveness, compliance, generalisability, strength, comparisons, Hawthorne and placebo effects, surrogate endpoints. Monitoring ethics, patient consent. Data treatment. Preparation of clinical trial protocols: phase 1, 2 and 3 trials. Clinical report forms. Research Ethics Committees. Regulatory approval. Good Clinical Research Practice (GCRP). Reporting results: statistics, presentation format, publication and reporting of results. Regulatory processes, CTX, CTN. Financial and contractual arrangements: budgets, compensation.

MDCN9104
Law, Ethics and the Regulation of the Development and Use of Medicines
Staff Contact: Prof P. Brooks
CP15 S2

This subject provides a general overview of the ethical issues and laws relevant to the development and marketing of medicines. It includes the following topics. State and Commonwealth Constitutional powers. Common Law, statuatory law, accountability, natural justice. Laws relating to the development and sale of medicines; patients, intellectual property, trade practices. Ethical issues in drug development and marketing. Preparation and submission of marketing applications, approval and appeal processes. Principles of Good Clinical Research Practice (GCRP). The ethical review process, consent procedures in biomedical research. The philosophy of regulation of drug use: input of industry, Government, consumer. The regulatory principles regarding the use of developmental drugs in human subjects and the practical consequences of these on the design and conduct of clinical investigations. The organisation of the regulatory processes in Australia: The Therapeutic Goods Administration and advisory bodies (ADEC, ADRAC etc). The Pharmaceutical Benefits Advisory Committee. Submissions regarding cost-effectiveness. Preparation and submission of an application for approval to test or market a drug and the relevant appeal processes. Integration of regulatory affairs into the pre- and post-marketing planning and review of product development strategies. Input from international bodies and national agencies.

MDCN9105
Safety of Medicines 1
Staff Contact: Prof P. Brooks
CP7.5 S1
Note/s: Not available in 1996.

Adverse drug reactions (ADRs): history - medical and political consequences. Development of ADR monitoring bodies: internatinal, Australia. Regulatory requirements for reporting ADRs: new drugs, established drugs. Classification of ADRs: predictable and unpredictable. Mechanisms of adverse drug reactions and interactions including carcinogenicity and teratogenicity: Risk factors that increase the likelihood of ADRs (genetic, age-related, disease-related, etc). Monitoring for potential ADRs: prospective and retrospective studies; intensive surveillance and spontaneous reporting. Determining risk and causality. Cost-benefit considerations. Investigation of ADR reports: company follow-up. Legal issues. Description of ADRs and adverse drug interactions in Product Information.

MDCN9106
Pharmaceutical Information Services
Staff Contact: Prof P. Brooks
CP7.5 S
Note/s: Not available in 1996.

This subject deals with the provision of information by pharmaceutical companies about their products both for internal use (e.g. in drug develoment) and for external use (e.g. for prescriber and consumer). Topics covered include the following. Development of prescribing information for doctors, pharmacists and patients: (a) during the drug development phase; (b) in the marketing phase. Development of patient educational material. The regulatory basis for the Australian Approved Product Information (PI) and the Australian Consumer Product Information (CPI) and their relationship to similar documents in other countries. Preparation, review and revision of these documents: regulations, codes of practice, Trade Practices Commission, product liability issues. Relevance of general law to product information. Promotional policy and procedures. Development of a promotional campaign: roles of the medical and marketing departments. Company approved procedures. Support needed for claims. The use of samples. The impact of State and Commonwealth Laws and industry codes. The role of the company representative: background and training, interaction with medical department staff, APMA Code of Conduct. Educational meetings and the ethics of produce promotion through sponsorship activities: conferences, symposia, publications, overseas travel, research support.

School of Community Medicine

CMED9100
Independent Studies
Staff Contact: Dr A. Stark
CP10

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

CMED9500
Epidemiology
Staff Contact: Dr M. McLaws and A/Prof J. Kaldor
CP15 S1 HPW3

This subject provides students with an understanding of the role of epidemiology as the quantitative science underpinning much of public health practice. Students will learn the basic methodological tools of epidemiology, such as statistics to measure disease frequency, skills to critically review literature and interpret epidemiological studies, and their application in a variety of research and public health contexts. Skills for measuring frequency of disease and testing for evidence of association between risk factors and disease in this subject will build on statistics learnt in HEAL9061 Statistics for Public Health.

This subject will cover topics pertaining to study design, basic statistical tests and interpretation of results. Application of these topics in areas such as questionnaire design, conducting and managing studies, problems relating to research grants will be covered in CMED9513 Applied Epidemiology.

CMED9504
Major Project
Staff Contact: MCH - Dr A. Stark; MPH - Dr A. Hodgkinson
CP60 S1, S2 or S3

The research project may be undertaken in the following areas: prevention and health promotion; primary health care; health of a particular population group; occupational

and environmental health; epidemiology; health of the elderly; disability and rehabilitation; alcohol, smoking and other drug use; health services and evaluation; biostatistics; community mental health; or in a field approved by the Head of School.

CMED9513
Applied Epidemiology
Staff Contact: A/Prof R. Richmond
CP10 S2 HPW2
Prerequisite: CMED9500 Epidemiology

This subject builds on CMED9500 Epidemiology, using practical examples of the application of epidemiology in field settings. Themes will include the development and validation of measures for epidemiological studies, the conduct of research in practice, evaluation methods and the application of study designs in the real world, ethics of research, and acute epidemiological investigation.

CMED9516
Introduction to Public Health
Staff Contact: Prof P. Baume and Prof J. Lawson
CP10 S1 HPW2

This subject will introduce students to the discipline of public health. There will be 12 formal lectures and 2 weeks of student presentations. Topics covered include Australian health care system; population health; management of public health interventions; principles of prevention; health promotion; health protection; concepts of risk factors; socio-economic status and health; special needs groups; determinants of health status; disability and chronic illness.

CMED9517
Advanced Biostatistics and Statistical Computing
Staff Contact: Dr A. Stark and Dr S. Lord
CP10 S2 HPW2
Prerequi site: HEAL9061

Statistical design, analysis and reporting: a selection of topics from clinical trials and other controlled studies, non-experimental studies, rates and proportions, multi-way tables, analysis of covariance and repeated measures, multiple regression and other multivariate analysis, life tables and survival analysis; use of statistical software. Thorough individual instruction in the use of computers will be given in the laboratory.

CMED9518
Case Studies in Epidemiology
Staff Contact: A/Prof K. Kador, A/Prof A Bauman and Dr M. McCredie
CP10 S2 HPW2
Prerequisite: CMED9500

Epidemiology has made a substantial contribution to public health policy and practice in a number of areas.

The subject will consider four areas (cancer, cardiovascular disease, hepatitis and screening for disease) and review the major epidemiological studies that have contributed to development of knowledge and in Public Health application in these areas. The emphasis of the subject will be on substantive findings, and the role played by epidemiological methods.

CMED9519
Demography
Staff Contact: A/Prof I. Burnley
CP10 S2 HPW2

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

CMED9530
Organisation and Delivery of Health Services
Staff Contact: Prof F. Ehrlich
CP10 S1 HPW2

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

CMED9531
Gerontology
Staff Contact: Prof F. Ehrlich
CP10 S2 HPW2

Biology of ageing - age associated changes in structure and function of majorB body systems, psychology of ageing, psychological theory and cognition in later life, sociology of health and illness in the elderly, politics of ageing.

CMED9533
Psychogeriatrics and Pharmacology
Staff Contact: Prof F. Ehrlich
CP10 S2 HPW2

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
CP10 S1 HPW2

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
Major Research Project
Staff Contact: Prof F. Ehrlich
CP10 S1, S2 or S3

Candidates are required to complete a project on an approved topic over a period of one session. 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
CP10

Candidates must complete 140 hours of supervised clinical work at Geriatric Units of approved teaching hospitals affiliated with *UNSW.*

CMED9538
Clinical Geriatrics
Staff Contact: Prof F. Ehrlich
CP20 S3 HPW2

Presentation of disease - specific features of presentation in old age; non-specific syndromes: immobility, falls, incontinence, confusional states. System disorders: cardiac, respiratory, haematological, gastro-enterological, renal, neurological, vascular, immune, metabolic, bone, endocrine, nutritional and reproductive, dental. Also special senses: hearing, visual. Podiatry.

CMED9600
Disability
Staff Contact: Dr H. Dickson
CP10 S1 HPW2

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

CMED9602
Health and Illness Behaviour
Staff Contact: Mr P. Trebilco
CP10 S1 HPW2

Self-care, personal health action and help-seeking behaviour; attitudes and beliefs about health and illness; media influences and sources of health advice; the media and public health; coping with illness, stress, anxiety, loss or bereavement; the sick role; expectations of health care; counselling techniques; doctor-patient communication; psychological, social and ethnic factors influencing health behaviour; health education and promotion; community mental health; rehabilitation; concepts and strategies.

CMED9603
Communications and Writing in Health
Staff Contact: Prof P. Baume
CP10 S1 HPW2

Writing and preparation for the media; preparation of material for health education and promotion, including audiovisual material; preparation of scientific papers, reports and theses; practical skills in planning and writing articles: logical organisation, clear and concise scientific prose; presentation of data and overall layout.

CMED9604
Tobacco, Alcohol and Other Drug Issues
Staff Contact: A/Prof R. Richmond
CP10 S1 HPW2

Concepts of drug dependence, including pharmacological aspects; management of these problems in primary care; rehabilitation programs, smoking cessation; weight control; social and psychological factors and their impact on the family; drug problems and their impact on the community; public health aspects; media; specific intervention techniques for users of tobacco, alcohol and other drug use.

CMED9605
Health in Developing Countries
Staff Contact: Dr J. Hirshman
CP10 S1 HPW2

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

CMED9606
Women and Health
Staff Contact: Dr S. Irvine
CP10 S1 HPW2

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

CMED9607
Researching Women's Health
Staff Contact: Dr S. Irvine
CP10 S2 HPW2

Examines the socio-cultural aspects of women's health. Emphasis will be on reading and critically examining recent social, behavioural science, public health and primary care literature. Case studies will be used to look at determinants of women's health, woman and health care systems, promoting women's health, and woman and disability.

CMED9608
Rural Health Studies 1
Staff Contact: Prof M. Harris
CP10 S1 External
Note/s: External course, 4 tele-conferences, one 2-day workshop mid-term.

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

CMED9609
Community Genetics
Staff Contact: Dr L. Lai
CP10 SS HPW2

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.

CMED9610
Community Nutrition
Staff Contact: A/Prof H. Greenfield
CP10 S2 HPW2

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

CMED9611
Health of the Elderly
Staff Contact: Dr R. Salgado
CP10 S2 HPW2

Demography of ageing; epidemiology of health, illness and disability in an ageing population; 'aged persons' perspectives; gerontology - biological, sociological and psychological perspectives; problems and special needs of an ageing population; health maintenance; health policy for an ageing population; health services; institutional care; community and domiciliary services; non-government organisations; poverty; community attitudes; accommodation; income support; social and ethical issues.

CMED9612
Environmental Health
Staff Contact: Dr J. Frith
CP10 S2 HPW2 - External mode also available

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

CMED9613
Health and Public Policy
Staff Contact: Prof P. Baume
CP10 S1 HPW2

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

CMED9614
Genetic Epidemiology
Staff Contact: Dr A. Stark
CP10 SS HPW2

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: Prof M. Harris
CP10 S1 HPW2

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

CMED9617
Community Paediatrics
Staff Contact: Dr V. Nossar
CP10 S2 HPW2

A broad view of Community Paediatric Services in contemporary Australian, how this paediatrics is practiced and the rationale behind these practices. Explores the practical and theoretical background behind the development of Community Paediatrics, as well as the principles that underpin its practice. Examines some key aspects of that practice.

CMED9618
Public Health Law and Ethics
Staff Contact: A/Prof P. McNeill
CP10 S1 HPW2

This subject deals with the role of law and ethics in resolving issues in public health. An overview will be presented of the Australian legal system, princples of law and legal approaches to resolving conflicts; law relevant to health professionals including their duty of care, requirements for registration, and obligations in privacy and confidentiality; legal responsibilities and obligations of public accountability; ethical principles and a model for ethical decision-making.

CMED9619
Evaluation of Primary Health Care Services
Staff Contact: Ms J. McDonald
CP10 S3

Students will attend a three day educational program which will cover the principles of evaluation assessment and accreditation. They will work through, in detail, both the content and process for undertaking a Community Health Accreditation Standards Review. This program is highly interactive and includes role plays and case studies. After completion of the three day educational program students will be required to attend a two day review of a Community Health Service, after the review they will work with a team of two other reviewers to prepare a report. This report and assessment by the other reviewers will be the subject of the candidates evaluation for the course.

CMED9620
Project Management and Evaluation in Rural Areas
Staff Contact: Prof M. Harris
CP10 S2 - External only
Note/s: External Course, 4 tele-conferences and one 2 day workshop pre-term

Basic concepts of health project management and evaluation as they apply to rural communities; recognising trends in rural communities which affect the health of individuals and the community; understanding barriers to the adoption of preventive action; understanding how effective health programs and disease prevention strategies are selected, implemented and assessed. This course is particularly relevant to community health and general practice projects.

CMED9621
HIV/AIDS: Challenging and Changing Health Care Systems
Staff Contact: A/Prof J. Kaldor
CP10 S2 HPW2

This course provides an introduction to biological, clinical and epidemiological aspects of HIV infection, and considers the impact of HIV/AIDS on a number of areas of the health care system and society, both now and in the future. The course is taught by internationally recognised experts in the field, and will have a particular focus on HIV/AIDS in Australia and the Asia/Pacific region.

CMED9622
Prevention
Staff Contact: Mr B. Skerman
CP10 S2 HPW2

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: Prof M. Harris
CP10 S2 HPW2 - External mode also available

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).

CMED9624
Mass Media in Public Health
Staff Contact: A/Prof A. Bauman
CP10 S2 HPW2

This subject introduces the concepts and theories of mass communication. The first objective is to understand the development, design and evaluation of mass media health-related campaigns in public health. The principles of formative and summative evaluation will be described. The second objective is to increase understanding of and develop skills in media message development and analysis. The third objective is to develop an understanding of the uses of mass media for public health advocacy purposes. The ways in which the media portray health issues, and the ways in which this process can be influenced will be discussed using the methods of content and discourse analysis.

CMED9625
Advanced Research Methods in Health Promotion
Staff Contact: A/Prof A. Bauman
CP10 S2 HPW2
Prerequisites: CMED9500, HEAL9061, MEED9012

This advanced subject will focus on quantitative approaches to health promotion research. Critical appraisal

of health promotion research and review of multivariate methods in (theoretical) research will be discussed.

Practical training in advanced methods (quantitative) and approaches to analysis and report writing will use health promotion data sets. Emphasis will be given to innovative study designs, sampling and practical problems in health promotion research.

CMED9626
Inequalities and Health
Staff Contact: Dr G. Powell-Davis
CP10 S2 HPW2

The subject aims to provide practical skills in analysing inequalities and evaluating interventions designed to address them. These are critical skills in the Health Outcomes approach. The subject comprises two weekend workshops with teleconferences after each workshop. For further information contact Gawaine Powell-Davis, Health Promotion Unit, SWS Area Health Service, Liverpool Ph: 828 3111.

CMED9627
Audit and Quality Assurance in Primary Care
Staff Contact: Prof M. Harris, Dr J Frith and Dr D. Pond
CP20 S3 - External only

This subject aims to provide theory and practice in quality assurance and audit in General Practice. In the subject students will develop knowledge and skills in quality assurance and audit principles and methods and in applying these to their own clinical practice by conducting audits of their practice over one year. The subject will include distance education materials and manuals, teleconferences, one weekend workshop, audit manuals and material.

School of Health Services Management

Master of Public Health

HEAL9061
Statistics for Public Health
Staff Contact: Ms D. Black
CP15 S1 HPW3

Provides an introduction to research methods and statistical techniques applicable to public health data. Statistical techniques will focus on data analysis of a single variable or linear relationships between two variables. In addition, students will learn to use SPSS for Windows to conduct statistical analyses on a set of data relevant to public health.

HEAL9751
Introduction to Management and Policy for Public Health
Staff Contact: Prof J. Lawson
CP10 S1 HPW2

Provides students with an understanding of the broad range of factors that can affect public health policy development and implementation and which can influence how public health services are organised and managed. The subject extends students' understanding of different approaches to developing and implementing public health policy and to organising and managing a unit within a public health service.

For details of electives offered, contact the Centre for Public Health

School of Medical Education

Master of Health Personnel Education
Graduate Diploma in Health Personnel Education

MEED9001
Independent Studies
Staff Contact: MHPEd - Dr C. Berglund; MPH - Mr A. Hodgkinson

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

MEED9010
Community Development
Staff Contact: Ms J. Ritchie
CP10 S1 HPW2

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

MEED9012
Health Promotion
Staff Contact: Ms J. Ritchie
CP10 S1 S2 HPW2

Explores the mearning of health promotion and its role in the field of public health, and provides a forum for discussion on preventive approaches in health care. Students study a variety of approaches to promoting health and consider the benefits and disadvantages of each of these within an integrated framework

MEED9013
Influencing Health Beliefs and Health Behaviours
Staff Contact: Ms J. Ritchie
CP10 S2 HPW2

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

MEED9014
Communication and Educational Skills for Community Health Workers
Staff Contact: Ms J. Ritchie
CP10 S2 HPW2

Emphasis on the specific communication and education skills required by health professionals working in community settings. Application of small group teaching and experiential learning approaches including interactive experiences, simulations, role plays, problem-solving exercises and opportunistic teaching methods.

MEED9101
Learning and Teaching
Staff Contact: Dr M. Stiernborg
CP10 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 organised around common problems in teaching and learning. Integrates with MEED9013.

MEED9102
Educational Process in Small Groups
Staff Contact: Mr A. Hodgkinson
CP10 S1 HPW2

How people operate as members and leaders of groups; conditions underlying effective group work in educational planning, teaching and learning, and the provision of health care; basic concepts of group structure. Stress on experiential learning, observation of group process, improving skills in facilitating group learning and designing appropriate learning activities.

MEED9103
Instructional Design
Staff Contact: Dr P. Youngblood
CP10 S1 HPW2

Application of the skills and knowledge gained in MEED9101 to the design of instruction for various nearning environments in the health field. Students learn to analyse a teaching problem, identify and classify learning outcomes, write learning objectives, select appropriate instructional and assessment strategies, and evaluate the effectiveness of instruction. Classes are organised as a series of workshops addressing the steps in the design process, including analysis, design, development and evaluation

MEED9104
Organisation and Management
Staff Contact: Prof A. Rotem and Mr A. Hodgkinson
CP10 S1 HPW2

Students critically examine existing organisational patterns relevant to health personnel education. Emphasis is placed on the participants' experiences as members of organisations and the effect of organisations on their individual performance. Description and analysis of participants' own organisations to identify strengths, operational problems and developmental possibilities with emphasis on managerial roles.

MEED9105
Educational Planning
Staff Contact: A/Prof R. Bandaranayake and Dr P. Youngblood
CP10 S2 HPW2

Builds on the competency based model in 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
CP10 S1 HPW2

The practical aspects of teaching methods. Problems experienced by candidates in their own situations. Certain theories and principles of learning as they apply to the various teaching methods studied. Emphasis is on microteaching (reinforcement, questioning, explaining).

MEED9107
Assessment of Students
Staff Contact: A/Prof R. Bandaranayake
CP10 S2 HPW2

The process, scope and purpose of educational evaluation. The place of student assessment within the curriculum and the concept of measurement and its requisites, leading to a review of the different types of assessment commonly used by participants to assess student learning in all its domains. The practical aspects of the designing, administration and scoring of such assessments, and attempts to identify ways of improving such procedures. The assessment of clinical performance on prescribed tasks, on tasks involving judgement, and in clinical practice involving priorities, management and responsibility. The utilisation of test scores and other assessment data in educational decisionmaking.

MEED9108
Program Evaluation and Planned Change
Staff Contact: Prof A. Rotem
CP10 S2 HPW2

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
Major Project
Staff Contact: MHPEd - Dr C. Berglund; MPH - Mr A. Hodgkinson
CP60 S1, S2 or S3

Provides an opportunity for the candidate to apply coursework learning through focusing on an area of health personnel education relevant to the candidate's professional interests and development and to the furthering of health personnel education.

MEED9110
Workshop in Culture, Subculture and Communication
Staff Contact: Dr R. Pigott
CP10 S1 HPW2

Introduction to the complexities of communicating across cultural and subcultural barriers in a world now increasingly composed on multicultural societies; andto the emerging role of intercultural communication skills in promoting health, preventing and treating disease, and managing health systems. The subject embraces theoretical and experiential learning and is designed to offer students an intellectual and intuitive feeling for the subject that will have immediate practical use.

MEED9111
The Consultation Process
Staff Contact: Prof A. Rotem
CP10 S2 HPW2
Recommended Prerequisite: MEED9104 or equivalent
Corequisites: MEED9108, MEED9113, MEED9112

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

MEED9112
Management of Human Resources in Health
Staff Contact: Dr A. Hodgkinson
CP10 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: Ms L. Bloomfield
CP10 S2 HPW2

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

MEED9115
Educational Selection
Staff Contact: Dr C. Berglund
CP5 S2 HPW1

Considerable interest is expressed by the health professions in the process of selecting students. Complaints are often directed to such shortcomings as the lack of willingness of postgraduates to work in rural areas, the inclination of students to seek 'spoon feeding', the inability of students to relate to patients, the poor science background of students etc. This elective examines the extent to which solutions to these problems can realistically be expected from improved selection.

MEED9120
Qualitative Research Methods in Health Promotion
Staff Contact: Ms J. Ritchie
CP10 S1 HPW2
Prerequisites: MEED9012, CMED9500

This subject focuses on issues and methods in qualitative research in health promotion and public health. It is offered to those wishing to undertake their major projects using qualitative methods.

MEED9121
Large Group Teaching
Staff Contact: A/Prof R. Bandaranayake
CP10 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
CP10 S1 HPW2

The concept of primary health care and its emergence as the priority health care approach in developing countries. Emphasis on the training implications of primary health care programs together with different definitions of the concept including the role of primary health care in social and economic development, and its relationship to existing health care systems.

MEED9123
Production of Audio-Visual Materials
Staff Contact: Ms L. Bloomfield
CP10 S2 HPW2

The use of audio visual materials and equipment; production of software (charts, transparencies, slides, film, videotape and audiotape); principles guiding the selection of teaching aids for self-paced learning, teaching in small groups and large group presentation. A major requirement for assessment is the selection and preparation of instructional media appropriate to a specific teaching situation in the participant's base institution.

MEED9124
Clinical Teaching
Staff Contact: Dr P. Harris
CP5 S1 HPW1

Drawing upon real life clinical practice and observing teaching sessions of their own, their peers and others, participants have the opportunity to explore the nature of clinical teaching and learning in selected programs, and to identify ways of improving teaching skills and maximising students' learning. Research in clinical teaching and it relation both to educational theory and to current practice.

MEED9125
Planning, Conducting and Evaluating Educational Workshops
Staff Contact: A/Prof R. Bandaranayake
CP10 S1 HPW2

In an attempt to develop their skills in all aspects of conducting workshops, participants are guided to formulate a plan for a workshop for their colleagues in an important educational area, with opportunity to practise various techniques for enhancing active participation, and subsequently to conduct the workshop, evaluate its process and outcomes, and report on it.

MEED9126
Self Directed Learning and Self Instruction
Staff Contact: Ms L. Bloomfield
CP10 S2 HPW2

Options which are available for the teacher to assist students to develop skills in self education. Requires students to undertake self directed study and to negotiate a learning contract with the instructor. Topics may include: adapting instruction to individual differences, principles and practices of self instruction, applying self directed learning in traditional courses, and contexts for informal learning such as continuing education, in-service training and distance education.

MEED9127
Research in Education for the Health Professions 1
Staff Contact: Dr M. Stiernborg
CP10 S1 HPW2

Enables participants to become aware of 'ways of knowing', in general, and of the scientific method in particular. Different methods of educational research examined in depth so that the method(s) most appropriate to given research problems can be selected. Participants develop skills in evaluating research papers exemplifying the different methods.

MEED9128
Research in Education for the Health Professions 2
Staff Contact: Dr M. Stiernborg
CP10 S2 HPW2
Prerequisite: MEED9127 or equivalent

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
CP10 S2 HPW2
Prerequisite: MEED9122 or evidence of substantial prior experience in primary health care work

This subject guides participants through a detailed analysis of both the theory and the practice of implementing Primary Health Care programs. Problems and issues encountered in implementation are examined and practical solutions explored. The course is designed for health professionals who have had some prior exposure to the concepts and practice of Primary Health Care, and draws upon relevant case studies for the analysis.

***MEED9302**
Learning in Small Groups
Staff Contact: Dr P. Harris
C10 S1, S2 or S3

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

***MEED9303**
Clinical Practice as a Discipline
Staff Contact: Dr P. Harris
CP10 S1, S2 or S3

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

***MEED9304**
Learning Clinical Reasoning
Staff Contact: Mr P. Godwin
CP15 S1, S2 or S3

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

***MEED9306**
Clinical Supervision
Staff Contact: Dr P. Harris
CP10 S1, S2 or S3

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

development of a procedural skill and skilled performance within the candidate's setting.

***MEED9307**
Exploring Clinical Ethics
Staff Contact: Dr C. Berglund
CP10 S1, S2 or S3

This subject guides the learner through the major ethical principles affecting clinical choices using a large array of contemporary clinical issues. The subject is based on posing questions and the search for answers.

Ethicists differ in the way they search for answers. Not all believe that there is one truth to find. Many believe that the 'truth' depends on the context, or situation, or on the relative importance of opposing values. This subject attempts to hear 'many voices' not only from ethicists and clinicians but from law, religion, administration and lay media. Ethicists themselves range across a spectrum from 'You should ...' (duty based deontologists) to 'It depends ...' (situationists). The subject aims to bring out that range. Assignments utilise consultations to explore ethical principles and their implications in the clinical setting.

***MEED9308**
Learning Clinical Decision Making
Staff Contact: Mr P. Godwin
CP10 S1, S2 or S3

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

***MEED9309**
Assessing Clinical Performance
Staff Contact: Dr M. Harris
CP10 S1, S2 or S3

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

***MEED9311**
Patient and Family Education
Staff Contact: Ms J. Ritchie
CP10 S1, S2 or S3

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

***MEED9312**
Research into Clinical Education
Staff Contact: Dr C. Berglund
CP10 S1, S2 or S3

This subject takes participants through many of the planning stages of research. The final project is to write a grant application for a research project in clinical education. This process involves the consideration of research questions, research paradigms, measures and interpretation. The social context of research is covered, as is the process of dissemination of research findings.

***MEED9313**
Planning Education Programs
Staff Contact: Mr P. Godwin
CP10 S1, S2 or S3

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

***MEED9314**
The Ward (or Office) as a Social and Learning Environment
Staff Contact: Dr C. Berglund
CP10 S1, S2 or S3

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

***MEED9315**
Clinical Teaching
Staff Contact: Dr P. Harris
CP15 S1, S2 or S3

The subject includes the planning and conduct of clinical teaching programs, preparation of the learners including assessment of the learner's readiness, learning of manual skills on simulated patients, management of the learning environment, briefing before patient encounter, demonstration of skills, perceptual skills in data collection, debriefing and reflection on the clinical encounter, explication of the clinical experience, in terms of available theory, translation of professional knowledge into working

knowledge, and forward planning of reading and further practice. The subject also deals with the micro-skills of listening, questioning, probing and challenging, demonstrating, and involving the patient and other staff. Assignments include the study of the candidate's clinical teaching and the study and practice of clinical micro-skills.

***MEED9316**
Learning Consulting Skills
Staff Contact: Dr P. Harris
CP15 S1, S2 or S3

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

***MEED9317**
Clinicians as Managers
Staff Contact: Mr P. Godwin
CP10 S1, S2 or S3

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

***MEED9351**
Independent Study
Staff Contact: Dr P. Harris
CP5 S1, S2 or S3

***MEED9352**
Independent Study
Staff Contact: Dr P. Harris
CP10 S1, S2 or S3

***MEED9353**
Independent Study
Staff Contact: Dr P. Harris
CP15 S1, S2 or S3

***MEED9354**
Independent Study
Staff Contact: Dr P. Harris
CP20 S1, S2 or S3

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

**These subjects are part of the Master of, and Graduate Diploma in Clinical Education, and are available on a full fee paying external basis only.*

Elective Studies

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

Supervision

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

Paediatrics

Graduate Diploma in Community Paediatrics

PAED8101
Physical Growth and Development I
Staff Contact: Dr C. Cunningham and Prof H. Bode
CP20 S3 HPW2

Physical growth from birth to adolescence. Neurodevelopment. Assessment of growth and development, deviation from normal growth and development of their management.

PAED8102
Psychosocial Development
Staff Contact: Prof S. Einfeld
CP10 S1 S2 HPW2

Theories of Freud, Erikson and Piaget, normal and abnormal family processes, behavioural and developmental issues, childhood behaviour problems and management, adolescent behaviour problems and management.

PAED8103
Child Health Services
Staff Contact: Dr E. Murphy
CP10 S1 S2 HPW2

The child care delivery system, parent education, screening programmes, immunisations, accidents and poisoning, dental care, care of physically and mentally disabled children.

PAED8104
The Effect of Social Adversity in Childhood
Staff Contact: Dr V. Nossar and Dr G. Alperstein
CP10 S1 S2 HPW2

Family structure and dynamics, poverty, single parent, drug addicted parents, housing and sanitation, homeless children, teenage parents, migrant families, Aboriginal health, working mothers and childcare.

PAED8105
The Child and the Law
Staff Contact: Dr K. Moran and Dr J. Bargen
CP10 S1 S2 HPW2

Adoption, child custody, child physical and sexual abuse, children's rights, the United Nations charter for children, child welfare, laws designed for special needs of children, juvenile deliquency.

PAED8106
Infant Feeding and Nutrition
Staff Contact: Dr P. McVigh
CP20 S3 HPW2

Lactation, breast feeding, nutritional requirements, feeding of infants and children, nutritional disorders in children, childhood origin of adult diseases.

Master of Community Paediatrics

PAED8107
Elective
CP10 S1 S2 HPW2

Elective may be undertaken in subjects offered by the Centre of Public Health or in any other subject after discussion with the course co-ordinator.

PAED8108
Major Project
CP30 S3

The research project may be undertaken in any area pertaining to child health.

PAED8109
Physical Growth and Development II
Staff Contact: Dr C. Cunningham and Prof H. Bode
CP20 S3 HPW2

An extension of topics covered in PAED8101 Physical Growth and Development I

Graduate Diploma in Paediatrics

PAED9100
General Paediatrics and Child Health
Staff Contact: A/Prof J. Gupta
CP48

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

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

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
CP12

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

PAED9105
Clinical Paediatric Experience 1
Staff Contact: A/Prof J. Gupta

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

School of Pathology

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

PATH9100
Principles of Disease Processes
Staff Contact: Prof C.R. Howlett
CP7.5 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.

School of Physiology and Pharmacology

Master of Sports Science
Graduate Diploma in Sports Science

PHPH5413/PHPH5513
Sports Injuries I
Staff Contact: Dr D. Garlick
CP15
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/PHPH5523
Sports Injuries II
CP15
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/PHPH5533
Medical Applications of Exercise I
CP15
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/PHPH5543
Medical Applications of Exercise II
CP15
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/PHPH5514
Sports Science
CP15
Staff Contact: Dr D. Garlick
Note/s: A compulsory subject.

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

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

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

PHPH5424
CP15
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/PHPH5534
Sports Injuries III
CP15
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 of 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.

PHPH5444/PHHP5544
Medical Applications of Exercise III
CP15
Staff Contact: Dr D. Garlick
Note/s: An elective subject.

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.

PHPH5415/PHPH5515
Sports Psychology
CP15
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 considering the psychological problems encountered by the injured recreationally active person and also by the athlete.

Behavioural problems are discussed such as exercise-addiction and body weight problems.

In regard to stress, there will be discussion of the mental state and the functioning of the immune system and the inter-relations between stress, exercise and the components of the immune system. This will be discussed in relation to the incidence of infection in the competitive athlete.

PHPH5425/PHPH5525
Sports Pharmacology
CP15
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 invivo are discussed such as the altered absorption rates with reduced mucosal blood flow and enhanced exercising muscle and skin blood flows; also, the effects 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.

PHPH5435/PHPH5535
Sports Nutrition
CP15
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.

PHPH5445
Major Project
CP30
Staff Contact: Dr D. Garlick
Note/s: A compulsory subject for MSpMed

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 Medical 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.

Master of Applied Science in Biopharmaceuticals

PHPH5461
Principles of Pharmacology
Staff Contact: Dr M. Fryer

This subject introduces the principles of pharmacology and also covers the systematic pharmacology of selected drug groups. It is designed for students with a background in biotechnology but with little or no knowledge of pharmacology. The subject covers topics such as dose response relationships, drug absorption, metabolism and elimination, autonomic pharmacology, autacoids, pharmacokinetics and toxicology.

PHPH5471
Advanced Pharmacology
Staff Contact: Dr M. Fryer
CP24
Prerequisites: PHPH3152, PHPH5461

This subject ourse is an advanced coverage of pharmacological topics including receptor binding, pharmacokinetics, drug assays, drug development, toxicology, autacoids and ion channels. The lecture material is supplemented by computerised analysis of data derived from experiments on receptor binding, dose response relationships and pharmacokinetics. Considerable emphasis is placed on the many aspects of drug development.

PHPH5481
Advanced Pharmacology - Project Major
Staff Contact: Dr M. Fryer
CP64

A laboratory or industry based project in the area of drug development.

PHPH5491
Advanced Pharmacology - Project Minor
Staff Contact: Dr M. Fryer
CP32

A small laboratory or industry based project or an extensive literature review or extensive data analysis in the area of drug development.

School of Psychiatry

Master of Psychological Medicine

PSCY9106
Psychological Medicine 1
Staff Contact: Prof G. Andrews
CP25 S1

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

PSCY9107
Psychological Medicine 2
Staff Contact: Prof G. Andrews
CP25 S2

The recognition and treatment of manic and depressive disorders and of the anxiety disorders. The use of pharmacological and cognitive behavioural techniques in these disorders. Crisis resolution in such disorders. Case discussions, including the presentation of material from patients currently in treatment, to illustrate these techniques.

PSCY9208
Psychological Medicine 3
Staff Contact: Prof G. Andrews
CP25 S1

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

PSCY9209
Psychological Medicine 4
Staff Contact: Prof G. Andrews
CP25 S2

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

PSCY9210
Project Report
Staff Contact: Prof G. Andrews
CP25 F

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

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 postgraduate degrees by research and course work, arranged in faculty order, see *UNSW Courses (by faculty)* in the *Calendar*.

Title	Abbreviation	Calendar/Handbook
Higher Degrees		
Doctor of Science	DSc	Calendar
Doctor of Letters	DLitt	Calendar
Doctor of Laws	LLD	Calendar
Doctor of Education	EdD	Professional Studies
Doctor of Juridical Science	SJD	Law
Doctor of Medicine	MD	Medicine
Doctor of Philosophy	PhD	Calendar and all handbooks
Master of Applied Science	MAppSc	Applied Science
Master of Architecture	MArch	Built Environment
Master of Archives Administration	MArchivAdmin	Professional Studies
Master of Art	MArt	College of Fine Arts
Master of Art Administration	MArtAdmin	College of Fine Arts
Master of Art Education	MArtEd	College of Fine Arts
Master of Art Education(Honours)	MArtEd(Hons)	College of Fine Arts
Master of Arts	MA	Arts and Social Sciences University College
Master of Arts (Honours)	MA(Hons)	Arts and Social Sciences
Master of Art Theory	MArtTh	College of Fine Arts
Master of Biomedical Engineering	MBiomedE	Engineering
Master of Building	MBuild	Built Environment
Master of the Built Environment	MBEnv	Built Environment
Master of the Built Environment (Building Conservation)	MBEnv	Built Environment
Master of Business Administration	MBA	AGSM
Master of Business Administration (Executive)	MBA(Exec)	AGSM
Master of Business and Technology	MBT	Engineering

Title	Abbreviation	Calendar/Handbook
Master of Chemistry	MChem	Science*
Master of Clinical Education	MClinEd	Medicine
Master of Commerce (Honours)	MCom(Hons)	Commerce and Economics
Master of Commerce	MCom	Commerce and Economics
Master of Community Health	MCH	Medicine
Master of Community Paediatrics	MCommPaed	Medicine
Master of Computational Science	MComputationalSc	Science
Master of Computer Science	MCompSc	Engineering
Master of Construction Management	MConstMgt	Built Environment
Master of Couple and Family Therapy	MCFT	Professional Studies
Master of Defence Studies	MDefStud	University College
Master of Design(Honours)	MDes(Hons)	College of Fine Arts
Master of Education	MEd	Professional Studies
Master of Education in Creative Arts	MEdCA	Professional Studies
Master of Education in Teaching	MEdTeach	Professional Studies
Master of Educational Administration	MEdAdmin	Professional Studies
Master of Engineering	ME	Applied Science Engineering University College
Master of Engineering without supervision	ME	Applied Science Engineering
Master of Engineering Science	MEngSc	Engineering Applied Science University College
Master of Environmental Engineering Science	MEnvEngSc	Engineering
Master of Environmental Studies	MEnvStudies	Applied Science
Master of Equity and Social Administration	MEqSocAdmin	Professional Studies
Master of Fine Arts	MFA	College of Fine Arts
Master of Health Administration	MHA	Professional Studies
Master of Health Personnel Education	MHPEd	Medicine
Master of Health Planning	MHP	Professional Studies
Master of Higher Education	MHEd	Professional Studies
Master of Industrial Design	MID	Built Environment
Master of Information Management	MIM	Professional Studies
Master of Information Science	MInfSc	Engineering
Master of International Social Development	MIntSocDev	Professional Studies
Master of Landscape Architecture	MLArch	Built Environment
Master of Landscape Planning	MLP	Built Environment
Master of Laws	LLM	Law
Master of Librarianship	MLib	Professional Studies
Master of Management Economics	MMgtEc	University College
Master of Mathematics	MMath	Science*
Master of Medicine	MMed	Medicine
Master of Mining Management	MMinMgmt	Applied Science
Master of Music	MMus	Arts and Social Sciences
Master of Music (Honours)	MMus(Hons)	Arts and Social Sciences
Master of Music Education (Honours)	MMusEd(Hons)	Arts and Social Sciences
Master of Optometry	MOptom	Science*
Master of Policy Studies	MPS	Arts and Social Sciences
Master of Project Management	MProjMgt	Built Environment
Master of Psychological Medicine	MPM	Medicine
Master of Public Health	MPH	Medicine Professional Studies
Master of Psychology (Applied)	MPsychol	Science†
Master of Psychology (Clinical)	MPsychol	Science†
Master of Real Estate	MRE	Built Environment
Master of Real Property	MRProp	Built Environment

Title	Abbreviation	Calendar/Handbook
Master of Safety Science	MSafetySc	Applied Science
Master of Science	MSc	Applied Science
		Built Environment
		Engineering
		Medicine
		Science*†
		University College
Master of Science *without supervision*	MSc	Applied Science
		Built Environment
		Engineering
		Medicine
Master of Science (Industrial Design)	MSc(IndDes)	Built Environment
Master of Social Work	MSW	Professional Studies
Master of Sports Science	MSpSc	Professional Studies
Master of Sports Medicine	MSpMed	Medicine
Master of Statistics	MStats	Science*
Master of Surgery	MS	Medicine
Master of Taxation	MTax	ATAX
Master of Town Planning	MTP	Built Environment
Master of Urban Development and Design	MUDD	Built Environment

Graduate Diplomas

Graduate Diploma	GradDip	AGSM
		Applied Science
		Architecture
		Arts and Social Sciences
		Commerce and Economics
		Engineering
		Medicine
		Professional Studies
		Science*†
	GradDipArts	Arts and Social Sciences
	GradDipC/F Therapy	Professional Studies
	GradDipClinEd	Medicine
	GradDipCommPaed	Medicine
	GradDipEq&SocAdmin	Professional Studies
	GradDipHEd	Professional Studies
	GradDipHPEd	Medicine
	GradDipIndMgt	Engineering
	GradDipIntSocDev	Professional Studies
	GradDipMus	Arts and Social Sciences
	GradDipPaed	Medicine
	GradDipPharmSc	Medicine
	GradDipSpMed	Medicine
	DipEd	Professional Studies
	GradDipIM-Archiv/Rec	Professional Studies
	GradDipIM-Lib	Professional Studies
	DipFDA	Science*

Graduate Certificates

	GradCertArts	Arts and Social Sciences
	GradCertHealthAdmin	Professional Studies
	GradCertHEd	Professional Studies
	GradCertMus	Arts and Social Sciences
	GradCertPharmSc	Medicine

**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 organisation or institution will have a cosupervisor at that institution.

Progression

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

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

**'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.*

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

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

(a) it must be an original and meritorious contribution to knowledge of the subject;

2(b) it must be written in English and reach a satisfactory standard of expression and presentation;

(c) it must consist of the candidate's own account of the research; in special cases work done conjointly with other persons may be accepted provided the Committee is satisfied about the extent of the candidate's part in the joint research.

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

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

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

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

Examination

5. (1) There shall be not fewer than three examiners of the thesis, appointed by the Committee, at least two of whom shall be external to the University.

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

(a) the candidate be awarded the degree without further examination; or

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of school*; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

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

** '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.*

(4) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree.

Fees

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

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

1. The degree of Doctor of Medicine by thesis without supervision may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee) to a candidate who has made an original and meritorious contribution to some branch of medicine.

Qualifications

2. A candidate for the degree shall hold the degrees of Bachelor of Medicine and Bachelor of Surgery from the University of New South Wales with at least five years standing at a level acceptable to the Committee.

Enrolment and Progression

3. An application to enrol as a candidate for the degree by thesis without supervision shall be made on the prescribed form which shall be lodged with the Registrar not less than six months before the intended date of submission of the thesis. A graduate who intends to apply in this way should, in his or her own interest, at an early stage seek the advice of the appropriate school with regard to the adequacy of the subject matter and its presentation for the degree. A synopsis of the work should be available.

Thesis

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

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

(3) The thesis shall comply with the following requirements:

(a) it must be an original and meritorious contribution to knowledge of the subject;

(b) it must be written in English and reach a satisfactory standard of expression and presentation;

(c) it must consist of the candidate's own account of the research; in special cases work done conjointly with other persons may be accepted provided the Committee is satisfied with the candidate's part in the joint research.

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

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

(6) Four copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses. The candidate may also submit any work previously published whether or not such work is related to the thesis.

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

Examination

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

(2) Before the thesis is submitted to the examiners the head of the school* in which the candidate is enrolled shall certify that it is prima facie worthy of examination.

(3) After examining the thesis each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:

(a) the candidate be awarded the degree without further examination; or

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of school; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

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

(5) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree.

Fees

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

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.

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

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

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

(4) No candidate shall be awarded the degree 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 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 requuire the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

Enrolment

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

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

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

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

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

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

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

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

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

Progression

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

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

(ii) Progress in the course will be reviewed within twelve months of the first review. As a result of either review the Committee may cancel enrolment or take such other action as it consideres 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 compiles with the requirements of the University for the preparation and submission of theses for higher degrees.

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

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 lited being made to the satisfaction of the head of School.

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

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

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

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

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

Fees

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

Master of Community Health (MCH) *by Formal Course Work*

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

Qualifications

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

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

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

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

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

Enrolment and Progression

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

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

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

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

Fees

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

Master of Community Paediatrics (MCommPaed)

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

Qualifications

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

(a) have been awarded a relevant degree of Bachelor of three full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Medicine (hereafter referred to as the Committee) and

(b) be professionally engaged in looking after the health of children.

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

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

Enrolment and Progression

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least four calendar months before the commencement of the course.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

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

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

Examination

4. (1) Assessment is based on satisfactory completion of written examination questions during and at the end of each subject and the satisfactory completion of assignments.

(2) The degree of Master of Community Paediatrics will be awarded after satisfactory completion of a program of 170 credit points including a major project.

Fees

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

Master of 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 organisation or institution will have a cosupervisor at that institution.

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

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

Progression

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

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

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

Thesis

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

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

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

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

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

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

Examination

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

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

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

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

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

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

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

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

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

Fees

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

Master of Health 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 Medicine (MMed) *by Formal Course Work**

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.

**For details regarding the Master of Medicine by Research, please contact the Faculty Administration Office.*

Master of Psychological Medicine (MPM)

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

Qualifications

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

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

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

Enrolment and Progression

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

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

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

(4) No candidate shall be awarded the degree until the lapse of four academic sessions. The maximum period of candidature shall be eight academic sessions. In special cases a variation to these times may be granted by the Committee.

Fees

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

Master of Public Health (MPH) *by Research*

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

Qualifications

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

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

(b)(i) have been awarded an appropriate degree of Bachelor of three full-time years duration (or the part-time equivalent) from the University of New South Wales or qualifications considered equivalent from another university or tertiary institutin at a level acceptable to the Committee and

(ii) have had the equivalent of at least three years experience in the health services of a kind acceptable to the Committee

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

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

Enrolment

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

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

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

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

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

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

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

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

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

Progression

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

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

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

Thesis

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

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

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

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

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

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

Examination

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

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

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

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

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

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

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

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

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

Fees

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

Master of Public Health (MPH) *by Formal Course Work*

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

Qualifications

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

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

(b) have had the equivalent of at least three years experience in the health services of a kind acceptable to the Committee.

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

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

Enrolment and Progression

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar on or before a date to be fixed by the Committee,

that date being at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

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

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

Fees

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

Master of 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 intents to enrol shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:

(a) full-time attendance at the University;

(b) part-time attendance at the University;

(c) external not in regular attendance at the University and using research facilities external to the University.

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

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

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

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

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

Thesis

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

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

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

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

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

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

Examination

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

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

(a) the candidate be awarded the degree without further examination; or

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

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

** '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.*

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

Fees

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

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

1. The degree of Master of Engineering or Master of Science or Master of Surveying without supervision may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee) to a candidate who of has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.

Qualifications

2. A candidate for the degree shall have been awarded an appropriate degree of Bachelor from the University of New South Wales with at least three years relevant standing in the case of Honours graduates and four years relevant standing in the case of Pass graduates, and at a level acceptable to the Committee.

Enrolment and Progression

3. An application to enrol as a candidate for the degree without supervision shall be made on the prescribed form which shall be lodged with the Registrar not less than six months before the intended date of submission of the thesis. A graduate who intends to apply in this way should in his or her own interest, seek at an early stage the advice of the appropriate head of school with regard to the adequacy of the subject matter and its presentation for the degree. A synopsis of the work should be available.

Thesis

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

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

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

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

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

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

Examination

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

(2) Before the thesis is submitted to the examiners the head of the school* in which the candidate is enrolled shall certify that it is prima facie worthy of examination.

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

(a) the candidate be awarded the degree without further examination; or

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

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

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

Fees

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

Master of Sports Medicine (MSpMed)

1. The degree of Master of Sports Medicine may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

Qualifications

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

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

(b) 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 degree.

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

Enrolment and Progression

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

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

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

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

(4) No candidate shall be awarded the degree as a part-time candidate until the lapse of five academic sessions from the date of enrolment. The maximum period of part-time candidature shall be nine academic sessions. In special cases an extension of time may be granted by the Committee.

Examination

4. (1) Assessment is based on the satisfactory completion of written examinations at the end of each subject and the satisfactory completion of the Practicum based on oral and practical demonstration of clinical skills.

(2) The degree of Master of Sports Medicine will be awarded after satisfactory completion of a program of advanced study which has achieved 24 credit points with satisfactory completion of clinical examination and the achievement of six credit points from the satisfactory completion of a Major Project report based on at least one semester of research or clinical studies in relation to sports medicine.

Fees

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

Master of Surgery (MS)

1. The degree of Master of Surgery by research may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee) to a candidate who has made an original contribution to knowledge in some field related to surgery.

Qualifications

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

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

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

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

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

Enrolment

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

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

(3) An approved candidate shall be enrolled in one of the following categories:

(a) full-time candidature: a candidate who is fully engaged in advanced study and research at the University or at one of its teaching hospitals;

(b) part-time candidature: a candidate whose occupation leaves the candidate substantially free to pursue a program of advanced study and research at the University or at one of its teaching hospitals;

(c) external candidature: a candidate who is engaged in advanced study and research away from the University or one of its teaching hospitals.

(4) A candidate shall undertake, or have undertaken prior to enrolment for the degree, a broad postgraduate training in the principles and practice of surgery over a period of at least three full-time years of a kind acceptable to the Committee.

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

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

(7) Either the original work embodied in the thesis or the broad postgraduate training in the principles and practice of surgery shall have been undertaken at the University or at one of its teaching hospitals.

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

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

Progression

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

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

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

Thesis

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

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

** '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) 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 lited being made to the satisfaction of the head of School.

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

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

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

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

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

Fees

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

Graduate Diploma in Clinical Education (GradDipClinEd)

1. The Graduate Diploma in Clinical Education may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

Qualifications

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

(a) have been awarded the degree of Bachelor of four full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Medicine (hereinafter referred to as the Committee), and

(b) be actively engaged in clinical education.

(2) An applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the diploma.

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

Enrolment and Progression

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

(2) A candidate for the diploma shall be required to undertake such formal 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 lest one semester of applied development of research in clinical education.

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

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

Examination

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

Fees

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

Graduate Diploma in Community Paediatrics (GradDipCommPaed)

1. The graduate diploma in Community Paediatrics may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

Qualifications

2. (1) A candidate for the Graduate Diploma shall:

(a) have been awarded a relevant degree of Bachelor of three full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree of the Faculty of Medicine(hereafter referred to as the Committee) and

(b) be professionally engaged in looking after the health of children.

(2) An applicant who submits evidence of such academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree or graduate diploma.

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

Enrolment and Progression

3. (1) An application to enrol as a candidate for the graduate diploma shall be made on the prescribed form which shall be lodged with the Registrar at least four calendar months before the commencement of the course.

(2) A candidate for the graduate diploma shall be required to undertake such formal subjects and pass such assessment as prescribed.

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

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

Examination

4. (1) Assessment is based on satisfactory completion of written examination questions during and at the end of each subject and the satisfactory completion of assignments.

(2) The Graduate Diploma in Community Paediatrics will be awarded after satisfactory completion of a program of 110 credit units.

Fees

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

Graduate Diploma in Health Personnel Education (GradDipHPEd)

1. The Graduate Diploma in Health Personnel Education may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

Qualifications

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

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

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

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

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

Enrolment and Progression

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

(2) A candidate for the diploma shall be required to undertake such formal subjects and pass such assessment as prescribed.

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

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

Fees

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

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 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 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) 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.

Note: *For details regarding the Graduate Diploma in Pharmaceutical Sciences (GradDipPharmSc) and the Graduate Certificate in Pharmaceutical Sciences (GradCertPharmSc), please contact the Faculty Administration Office.*

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

Provided below is an outline of undergraduate scholarships. Students should check the scholarships listed in the General Section and those listed for their Faculty. Students should also consult the Scholarship information for related Faculties. Applicants should note that the awards, conditions and particularly closing dates may vary from year to year.

Unless otherwise indicated application forms and further information are available from the Student Centre (lower Ground Floor, Chancellery) and applications should be submitted by 31 January each year. Applications normally become available four to six weeks before the closing date. Scholarship information is regularly included in the University publication 'Uniken/Focus'.

Students investigating study opportunities overseas should consult Study Abroad which is published by UNESCO and is available in the University library. The UNSW International Student Centre can provide information about exchange programs (see the 'Go Away Travel Scholarship' included in the General section below).

The British Council (tel 02 3262365) may be of assistance for information about study in Britain. The Australian American Education Foundation (tel 06 2479331) can provide information about study in America. Information may also be obtained from the embassy or consulate of the country in which study is proposed and the proposed overseas institution.

Details of overseas awards and exchanges administered by the Department of Employment, Education and Training can be obtained from the Awards and Exchanges Section, Department of Employment, Education and Training, PO Box 826, Woden, ACT 2606.

General

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 or grandchildren of Alumni of the University of New South Wales and may be either permanent residents of Australia or international students. Applications close 13 January.

Apex Foundation for Research into Intellectual Disability Studentships

V $1000 paid in a lump sum.

C Applicant should be preparing a thesis related to intellectual disability. Applications should be in the form of a letter which includes a curriculum-vitae and thesis plan and must be supported by a letter from the Head of School/Department. Applications should be sent to the Honorary Secretary, Apex Foundation Studentships, PO Box 311, Mt Evelyn VIC 3796 by 31 May.

Australian Development Co-operation Scholarship (ADCOS)

V Tuition fees. Some students may be eligible for airfares and a stipend.

T Determined by normal course duration

C This award is for international students from selected countries only. Information should be obtained from the Australian Education Centre or Diplomatic Post in the home country. Conditions and entitlements vary depending on the home country. The closing date is normally early in the year before the year of study.

Australian Vietnam Veterans Trust Education Assistance Scheme

V $3,500 pa for the duration of the course.

C Applicant must be a child of a Vietnam veteran and under the age of 25 at the time of application. The award is subject to the same income test as AUSTUDY. Applicants can be undertaking any year of a Bachelors course. Applications and further information are available from the Trust's Regional Offices in each state capital. Applications close 31 October.

General Accident Australian Bicentennial St Andrews Scholarship

V £Stg4840

T Approximately 12 months

C Applicants should be Australian citizens who are proceding to Honours in Economics, History, Philosophy, Economic and Social History or Social Anthropology. The awards are for study at St Andrews, United Kingdom. Applications close 12 November.

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. Selection is based on academic merit and financial need

Go-Away Travel Scholarships

V Up to $1500 pa

T 1 year

C Established to encourage UNSW students to participate in the University's formal international exchange programs. Students must be undergraduates embarking on a period of study for credit overseas. Awards will be granted on the basis of academic merit. Interested students should contact the International Student Centre.

Grains Research and Development Corporation (GRDC) Undergraduate Honours Scholarship

V $6000 (ie $5000 to the student and $1000 to the host School/Department).

T 1 year

C Applicants must be undertaking a full-time Honours program. Study in an area of significance to the grains industry will be viewed favourably. Written applications including a curriculum-vitae, academic record, letter of support from the Head of School/Department and 2 referees' supporting statements should be sent to GRDC Undergraduate Honours Scholarship, PO Box E6, Queen Victoria Terrace, Canberra ACT 2600 (tel 06 2725528). Applications close 25 November.

Great Barrier Reef Marine Park Authority Research Support

V $1500

C Applicants must be undertaking a full-time Honours year or PhD research project that could contribute to the planning and managing work undertaken by the Great Barrier Reef Marine Park Authority. Applications and further information may be obtained from the Executive Officer, Great Barrier Reef Marine Park Authority, PO Box 1379, Townsville QLD 4810 (tel 077 818811). Applications close 16 December.

Mitsui Education Foundation Scholarship

C A one month scholarship to Japan is available to a young Australian national to help promote goodwill between the two countries. Candidates should be full-time undergraduate students aged between 20-24 and preferably in their third or fourth year. The successful student will travel to Japan during November and December. Applications become available in July and close mid-August with the Scholarship Unit.

National Health and Medical Research Council (NH&MRC) Aboriginal Health Researh Scholarships

V $22,250

T Up to 3 years

C Applicants may be undertaking an undergraduate degree in order to pursue research relevant to Aboriginal health. Applications close 24 July with the Scholarship Unit.

Pig Research and Development Corporation (PRDC) Undergraduate Encouragement Award

V $600 lump sum.

C Applicants must be in the later stage of an undergraduate degree and interested in undertaking a research project related to the Australian pig industry. Applications close 3 times a year (ie 1 March, 1 July, 1 October) with the PRDC, PO Box 4804, Kingston ACT 2604.

River Basin Management Society Ernest Jackson Memorial Research Grants

V Up to $2000

C To assist tertiary students undertaking research in the field of River Basin Management. Applications close with the Research Grants Co-ordinator, PO Box 68, Clifton Hill VIC 3068 on 11 August.

RSPCA Alan White Scholarship

V $2500

C Applicants should be undertaking original research to improve the understanding and welfare of animals. Written applications should be sent to the Executive Officer, RSPCA Australia, PO Box E369, Queen Victoria Terrace, Canberra ACT 2600 (tel 06 2311437) by 31 March.

Sam Cracknell Memorial

V Up to $1500 pa

T 1 year

C Applicants should have already completed at least 2 years of a degree or diploma course and be enrolled in a full-time course during the year of application. Selection is based on academic merit, participation in sport both directly and administratively; and financial need. Applications close 7 March.

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, UNSW, Sydney 2052 (tel 385 4878).

The STA Travel Grant

V Up to $3000

C Applicants must be undertaking study leading to a degree or diploma of the University and a member of the University Union. The grant is awarded on the basis of significant contribution to the community life of the University involving a leadership role in student affairs and the University Union and the relevance and merit of the proposed travel to the student's academic program or University Union Activities. Applications close 30 April each year.

University Honours Year Scholarships

V $1000

T 1 year

C A number of scholarships will be awarded on the basis of academic merit for students entering an 'add-on' honours year, that is the honours year in a degree course which is normally a pass degree but which has the option of a further year of study at Honours level. Applications close with the Scholarship Unit on 30 November.

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 completed their schooling in Broken Hill or whose parents reside in Broken Hill and undertaking a course related to the mining industry. Includes courses in mining engineering, geology, electrical and mechanical engineering, metallurgical process engineering, chemical engineering and science. Apply directly to PO Box 460, Broken Hill, NSW 2880. Applications close 30 September each year.

Medicine

Harvey Carey Memorial Scholarship

V $1700 pa

T 1 year

C Applicants must be enrolled in the BSc(Med) Honours course and undertaking research in the area of reproductive physiology. Apply in writing to the Faculty Administration Office.

Graduate Scholarships

Provided below is an outline of Graduate Scholarships. Students should check the scholarships listed in the General Section and those listed for their Faculty. Students should also consult the Scholarship information for related Faculties. Applicants should note that the awards, conditions and particularly closing dates may vary from year to year.

Unless otherwise indicated application forms and further information are available from the Student Centre (lower Ground Floor, Chancellery). Applications normally become available four to six weeks before the closing date.

Scholarship information is regularly included in the University publication 'Uniken/Focus'.

Students investigating study opportunities overseas should consult Study Abroad which is published by UNESCO and is available in the University library. The British Council (tel 02 3262365) may be of assistance for information about study in Britain. The Australian American Education Foundation (tel 06 2479331) can provide information about study in America. Information may also be obtained from the embassy or consulate of the country in which study is proposed and the proposed overseas institution.

Details of overseas awards and exchanges administered by the Department of Employment, Education and Training can be obtained from the Awards and Exchanges Section, Department of Employment, Education and Training, PO Box 826, Woden, ACT 2606.

General

The main programs of assistance for postgraduate study are:

Australian Postgraduate Awards (APA)

V $14,961 (1995 rate). Other allowances may also be paid.

T Up to 2 years for a Masters, 3 years for a PhD degree. PhD students may request in certain circumstances up to 6 months extension.

C Applicants must be honours graduates or equivalent or scholars who will graduate in current academic year and proposing to undertake a Masters by Research or PhD. Applicants must be Permanent Residents who have lived continuously in Australia for 12 months or Australian citizens. Applications to Scholarship Unit by 31 October.

Australian Development Co-operation Scholarship (ADCOS)

V Tuition fees. Some students may be eligible for air fares and a stipend.

T Determined by normal course duration

C This award is for international students from selected countries only. Information should be obtained from Australian Diplomatic Posts or Australian Education Centres in the home country. Conditions and entitlements vary depending on the home country.

Overseas Postgraduate Research Scholarships (OPRS)

V Tuition fees and medical cover 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 Scholarship Unit by 30 September

Other General Sc holarships:

Australian Bicentennial Scholarships and Fellowships Scheme

V £4000 (stg)

T At least 3 months

C Applicant must be enrolled as a postgraduate student at an Australian higher education institution and usually resident in Australia. Awards are available for study in the UK in any discipline. Applications close with the Executive Director, Australian Vice-Chancellors' Committee, GPO Box 1142, Canberra ACT 2601 on 31 October.

Australian Brewers Foundation Alcohol Related Medical Research Postgraduate Scholarships

V Similar to the NH&MRC (see NH&MRC entry under General).

T 2 years

C Similar to the NH&MRC. Applications and further information may be obtained from the Secretary, ABF - Medical Research Advisory Committee, Level 8, 235 Pyrmont Street, Pyrmont 2008 (tel 552668).

Australian Geographical Survey Organisation (AGSO) Postgraduate Awards in Geosciences

V $20,323 plus allowances

T Up to 3 years

C Applicants must be enrolled or enrolling in a full-time PhD. Applicants must be permanent residents with 12

months continuous residency in Australia or Australian citizens. Applications which include a curriculum-vitae should be sent to the Postgraduate Scholarship Co-ordinator, Human Resources Services, AGSO, GPO Box 378, Canberra ACT 2601 (tel 06 2499673). Applications close 11 August.

Cambridge Australia Scholarships including the Packer Scholarships

V Fees and maintenance allowance of £5340 (stg), return air travel to the UK.

T Up to 3 years

C Applicants must be Australian citizens who graduated with honours 1 or equivalent, from an Australian University who have gained admission to a PhD at Cambridge. Applicants must also have won a British Overseas Research Student Award. Applicants should request an application for the scholarship at the time of applying for admission to Cambridge. Enquiries can be directed to the Cambridge Commonwealth Trust, Canberra (tel 06 249 7204). Applications close 30 April.

Commonwealth Scholarship and Fellowship Plan (CSFP)

V Varies for each country. Generally covers travel, living, tuition fees, books and equipment, approved medical expenses. Marriage allowance may be payable.

T Usually 2 years, sometimes 3

C Applicants must be graduates who are Australian citizens. Tenable in Commonwealth countries other than Australia. Applications close at different times depending on the country in which the study is proposed.

Federation of University Women

Each year the Federation offers to its members a number of awards for study in Australia and overseas. Details of awards are included in a booklet available from Australian Federation of University Women. The NSW Branch Office is located in the Dymocks Building, 428 George Street, Sydney NSW 2000 (tel 232 5629).

Frank Knox Memorial Fellowships

V $US13,500 pa plus tuition fees and student health insurance

T 1 year with the possibility of renewal for a further year.

C Applicants must be Australian citizens, who are graduates or near graduates of an Australian university. Applications close with the Scholarship Unit mid-October.

Fulbright Postgraduate Student Awards

V Up to $A29,250 depending on the type of award.

T 1 year

C Applicants must be enrolled in a higher degree at an Australian institution and wishing to undertake research at an American institution. The research should be related to School-to-Work transition, Visual Arts, Performing Arts, Journalism, Engineering or Business Administration. Awards are also available for Aboriginal and Torres Strait Islander students. Applications and additional information are available from the Honorary Secretary, Fulbright NSW State Selection Committee, Research and Scholarships Office, Sydney University 2006 (tel 02 3514464).

Gowrie Scholarship Trust Fund

V $6000 pa. Under special circumstances this may be increased.

T 2 years. Under special circumstances this may be extended.

C Applicants must be members of the Forces or children (or grandchildren or lineal descendants) of members of the Forces who were on active service during the 1939-45 War. Applications close with the Scholarship Unit by 31 October.

Grains Reseach and Development Corporation (GRDC) Junior Research Fellowship

V $21,000 plus up to $3,000 to the supporting institution, some conference/workshop attendance allowances.

T Up to 3 years

C Applicants must be undertaking full-time research toward a PhD. Applicants must be Australian citizens or entitled to reside permanently in Australia. Applications should be sent to the Junior Research Fellowship, GRDC, PO Box E6, Queen Victoria Terrace, Canberra ACT 2600 (tel 06 2725525) on 25 November.

Great Barrier Reef Marine Park Authority Research Support

V $1000

C Applicants must be enrolled in a full-time PhD or Honours year with a research project that could contribute to the planning and managing work undertaken by the Great Barrier Reef Marine Park Authority. Applications and further information may be obtained from the Executive Officer, Great Barrier Reef Marine Park Authority, PO Box 1379, Townsville QLD 4810 (tel 07 7818811). Applications close 16 December.

The Harkness Fellowships

V Travel and other allowances for travel and study in the USA

T 12-21 months

C Candidates must be Australian citizens or have taken steps to achieve citizenship. The candidate will usually have an honours degree or equivalent, or an outstanding record of achievement in creative arts, journalism or other career. The award focuses on health care, education, employment and training schemes and issues which affect the quality of life in cities. Applicants should be over 21 years of age. Applications and further information are available from Mr R Beale, Department

of the Prime Minister and Cabinet, 3-5 National Circuit, Barton ACT 2600. Applications close 30 September.

Kobe Steel Scholarship for Postgraduate Study at St Catherine's College, Oxford University

V Maintenance allowance of at least £7,000 (stg) plus tuition fees and dues and travelling expenses to and from Oxford.

T Up to 2 years with the possibility of some extension.

C Applicants must be Australian nationals. Students should have a past or future interest in Japan. Applications close on 31 October with the Australian Vice-Chancellor's Committee (AV-CC), GPO Box 1142, Canberra ACT 2601.

Land and Water Resources Research and Development Corporation (LWRRDC)

V $20,000 pa plus $5,000 for operating expenses

T 2 years for a Masters, 3 years for a PhD degree

C The scholarships are available for research that will lead to better management, sustainable use and conservation of land, water and vegetation resources in Australia. Applications close with the LWRRDC on 28 July. Applications should be forwarded to the LWRRDC, GPO Box 2182, Canberra, ACT (tel 06 2573379).

Menzies Research Scholarship in the Allied Health Sciences

V Up to $24,000 pa

T 2 years

C The scholarship is awarded to stimulate research by persons working in the health field in disciplines other than medicine. Applications close on 25 September with the Menzies Foundation, 210 Clarendon St, East Melbourne Vic 3002.

National Drug Strategy (NDS) Postgraduate Research Scholarship

V $21,666 pa

T Initially for 1 year, with the possibility of renewal for a further 2 years

Applicants must have completed Year 1 of a PhD program. 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. Applications close 15 July.

National Health and Medical Research Council (NH&MRC) Aboriginal Health Research Scholarships

V $22,250

T Up to 3 years

C Applicants must enrol for a diploma, certificate, undergraduate degree or postgraduate research degree in order to pursue research relevant to Aboriginal health. Applications close 24 July with the Scholarship Unit.

National Health and Medical Research Council (NH&MRC) Dora Lush Postgraduate Scholarships

V $14,961 (or $19,307 for AIDS research) plus allowances

T Up to 3 years

C Applicants should be permanent residents living in Australia or Australian citizens who have already completed a Science honours degree or the equivalent at the time of submission of the application. Students enrolled in the honours year at the time of application are **not** eligible. Applications close 24 July with the Scholarship Unit.

National Health and Medical Research Council (NH&MRC) Medical Postgraduate Scholarships

V $22,250 plus allowances

T Up to 3 years

C Applicants must be Australian citizens or permanent residents who are medical graduates. Applications are particularly encouraged from students in the following fields - alcohol and substance abuse, prostate cancer, nursing and allied health services, breast cancer, dementia, injury and HIV/AIDS. Applications close 23 June with the Scholarship Unit.

National Health and Medical Research Council (NH&MRC) Public Health Postgraduate Scholarships

V $19,500 (science graduates), $22,000 (medical graduates) plus allowances

T Up to 3 years

C The scholarship is designed to enable graduates to obtain formal academic training in public health research. Applications close 23 June with NH&MRC.

Pig Research and Development Corporation (PRDC) Postgraduate Top-Up Scholarships

V A supplement to other scholarship(s) up to a maximum of $21,000 plus possibility of other allowances.

C Applicants must be Australian citizens or permanent residents who are eligible for another scholarship. Applicants must be undertaking a research project that will provide training relevant to establishing a career in the Australian pig industry. Applications close with the PRDC, PO Box 4804, Kingston ACT 2604 on 1 December.

Pig Research and Development Corporation Research Fellowship

V $25,000 plus allowances

T Up to 3 years

C Applicants must be undertaking a PhD with research relevant to the increased competitiveness of the Australian pig industry. Applications close with the PRDC, PO Box 4804, Kingston ACT 2604 on 1 December.

The Rhodes Scholarship to Oxford University

V Approximately $15,000 pa, fees and assistance with travel

T 2 years, may be extended for a third year

C Australian citizens aged between 19 and 25 who have an honours degree or equivalent. Applications close September each year with The Honorary Secretary to the NSW Rhodes Selection Committee, Building G17, University of Sydney, NSW 2006 (tel 3514567).

River Basin Management Society Ernest Jackson Memorial Research Grants

V Up to $2000

C To assist tertiary students undertaking research in the field of River Basin Management. Applications close with the Research Grants Co-ordinator, PO Box 68, Clifton Hill VIC 3068 on 11 August.

Robert Gordon Menzies Scholarship to Harvard

V Up to $A25,000. Students who enrol in the Harvard Business School may be provided an additional $12,000.

T To be determined

C Tenable at Harvard University. Applicants must be Australian citizens or permanent residents and graduates of an Australian tertiary institution. The successful applicant will be expected to repay the scholarship in later years when circumstances permit. Applications and additional information may be obtained by writing to the Management Services Office, ANU, Canberra ACT 0200. Applications close 5 January.

RSPCA Alan White Scholarship

V $2500

C Applicants should be undertaking original research to improve the understanding and welfare of animals. Written applications should be sent to the Executive Officer, RSPCA Australia, PO Box E369, Queen Victoria Terrace, Canberra ACT 2600 (tel 06 2311437) by 31 March.

Shell Scholarship in Science or Engineering

V $20,000 pa

T Up to 3 years

C Applicants must be Australian citizens or permanent residents. Applicants should intend to study a Doctorate in science, engineering, economics/commerce, computer science, or a closely related discipline. Applications close with Shell Australia, Box 872k GPO, Melbourne VIC 3001 (tel 03 96665666) on 27 October.

STA Travel Grant

V Up to $3000

C Applicants must be undertaking study leading to a degree or diploma of the University and a member of the University Union. The grant is awarded on the basis of significant contribution to the community life of the University involving a leadership role in student affairs and the University Union and the relevance and merit of the proposed travel to the student's academic program or University Union activities. Applications close 30 April each year.

The Wenkart Foundation Grants

V Up to $22,000 pa

T 2 years but may be renewed

C Applicants must be permanent residents or undergraduates educated in Australia and planning to reside in Australia. Applicants must be undertaking full-time research in clinical, biomedical and health related sciences. Applications close with the Scholarship Unit on 24 May.

Medicine

Arthritis Foundation Research Scholarships

V $22,000 (Medical) and $15,000 (Science)

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 5 July.

The Asthma Foundation of New South Wales

Applications close 12 August with the Secretary, Research Advisory Committee, Asthma Foundation, Suite 1, 'Garden Mews', 82-86 Pacific Highway, St Leonards, NSW 2065.

The Australian Kidney Foundation

V Similar to the National Health and Medical Research Council research scholarship (see NH&MRC entries under General)

T Up to 3 years

C To enable a suitable graduate to undertake an MD or PhD related to kidney and urinary tract. Applications close 1 September with the Australian Kidney Foundation, PO Box 9993, Canberra, ACT 2601.

Australian Spinal Research Foundation Postgraduate Research Awards

V Equivalent to Australian Postgraduate Award (see APA entry under General)

T Up to 3 years

C Applicants must be undertaking a Masters by Research or PhD in an area designed to contribute to an understanding of the anatomical and physiological mechanisms underlying chiropractic care or the clinical efficiency of chiropractic care and management procedures. Applications close with the Australian Spinal Research Foundation, PO Box 1047, Springwood QLD 4127 (tel 07 808 4098) on 31 October.

Community Health and Anti-Tuberculosis Association - The Harry Windsor Biomedical and Medical Research Scholarship

See above under Biological and Behavioural Sciences

National Heart Foundation of Australia

See above under Biological and Behavioural Science

Prizes

Undergraduate University Prizes

The following information summarises 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, school or department in which they are awarded. Law prizes are awarded only for students enrolled in the LLB or Jurisprudence courses.

Information regarding the establishment of new prizes may be obtained from the Enrolments and Assessment 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 Association Prize

V Statuette

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 course 3801 (BSc(Med) MB BS) or 3821 (BSc MB BS) or 3840 (BA BSc(Med) MB BS)

The Foundation Year Graduates Medal

V Silver Medal

C For leadership and fellowship as a medical undergraduate by a student who has completed the final year of the medical course

The Graduation Prize in Surgery

V $100.00

C The best performance in the surgery components of MDSG4001 Integrated Clinical and Community Studies and MDSG6001 Integrated Clinical Studies 6 in course 3801 (BSc(Med) MB BS) or 3821 (BSc MB BS) or 3840 (BA BSc(Med) MB BS)

The Medical Women's Society of New South Wales Prize

V $150.00

C The best performance by a female student throughout the course 3801 (BSc(Med) MB BS) or 3821 (BSc MB BS) or 3840 (BA BSc(Med) MB BS)

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) MB BS) or in the undergraduate medicine component of first, second and third years of course 3840 (BA BSc(Med) MB BS)

The Royal Australian College of Ophthalmologists Prize

V $250.00and Medal

C The best essay on an ophthalmological subject by a student in fifth year of course 3801 (BSc(Med) MB BS) or the sixth year of course 3821 (BSc MB BS) or 3840 (BA BSc(Med) MB BS)

The W G Tellesson Memorial Prize

V $150.00

C The best performance in MDSG3001 Clinical Studies by a student in third year of course 3801 (BSc(Med) MB BS) or fourth year of course 3821 (BSc MB BS) or 3840 (BA BSc(Med) MB BS)

The Wallace Wurth Prize

V $200.00

C The best overall performance in the Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery course, the Bachelor of Science Bachelor of Medicine Bachelor of Surgery combined course or the Bachelor of Arts Bachelor of Science (Medicine) Bachelor of Medicine Bachelor of Surgery combined course by any final year student

School of Anatomy

The Dami Atapattu Prize

V $100.00

C The best performance in Year 1 Anatomy (subject ANAT1006) by a student in course 3801 (BSc(Med) MS BS) or 3840 (BA BSc(Med) MB BS)

The Jane Skillen Prize in Anatomy

V $250.00

C The highest average mark in any three third year Anatomy units by a graduand in the Bachelor of Science degree course with a major in Anatomy

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) MB BS) or 3840 (BA BSc(Med) MB BS)

The Prize in Practical Anatomy

V $200.00

C The best performance in Practical Anatomy (including Radiological Anatomy) by a student in Year 2 of course 3801 (BSc(Med) MB BS) or 3840 (BA BSc(Med) MB BS)

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 (General Practice/Geriatrics) by a Year 5 student in course 3801 (BSc(Med) MB BS), or Year 6 student in 3821 (BSc MB BS) or 3840 (BA BSc(Med) MB BS)

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 of BSc(Med) MB BS or BSc MB BS or BA BSc(Med) MB BS

The NSW Department of Health Prize

V $500.00

C The best performance in the Community Medicine component of MDSG4001 Integrated Clinical and Community Studies in course 3801 (BSc(Med) MB BS) or 3821 (BSc MB BS) or 3840 (BA BSc(Med) MB BS)

The Richard Kelman Prize

V $100.00

C Excellence in the Occupational Health component of MDSG4001 Integrated Clinical and Community Studies by a student in course 3801 (BSc(Med) MB BS) or 3821 (BSc MB BS) or 3840 (BA BSc(Med) MB BS)

School of Obstetrics and Gynaecology

The Gordon Lowe Memorial Prize

V $150.00

C The best performance in OBST5001 Obstetrics and Gynaecology in course 3801 (BSc(Med) MB BS) or 3821 (BSc MB BS) or 3840 (BA BSc(Med) MB BS)

The Royal Hospital for Women Senior Medical Staff Prize

V $100.00

C The best performance in OBST5001 Obstetrics and Gynaecology by a student in course 3801 (BSc(Med) MB BS) or 3821 (BSc MB BS) or 3840 (BA BSc(Med) MB BS)

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 in course 3801 (BSc(Med) MB BS), 3821 (BSc MB BS) or 3841 (BA BSc(Med) MB BS)

The Paediatrics Staff Prize

V $200.00

C An outstanding performance in paediatrics by a student in course 3801 (BSc(Med) MB BS)

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) MB BS), 3821 (BSc MB BS) or 3840 (BA BSc(Med) MB BS)

The Macquarie Prize in Diagnostic Pathology

V $500.00and Medal

C The best performance in the diagnostic pathology component of PATH3101 in course 3801 (BSc(Med) MB BS), 3821 (BSc MB BS) or 3840 (BA BSc (Med) MB BS).

The Sugerman Prize for Experimental Pathology

V $1,000.00

C The most proficient research work done in basic or applied pathology by a student in course 3831 (BSc(Med)Hons).

The Sugerman Prize in Clinical Pathology

V $1,000.00

C The best performance in a combination of PATH3101 Pathology and MDSG4001 Integrated Clinical and Community Studies by a student in 3801 (BSc(Med) MB BS) 3821 (BSc MB BS) or 3840 (BA BSc(Med) MB BS)

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 Honours or PHPH4258 Pharmacology Honours in course 3801 (BSc(Med) MB BS) in the Faculty of Medicine or course 3970 (BSc) in 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) MB BS), 3821 (BSc MB BS) or 3840 3840 (BA BSc(Med) MB BS).

The Doerenkamp-Zbinden Prize in Pharmacology

V $100.00

C The highest aggregate for PHPH3152 Pharmacology the Bachelor of Science degree course

The F C Courtice Prize

V $100.00

C The best performance in Level III physiology subjects: PHPH3121, PHPH3131, PHPH3211 and PHPH3221 in a Bachelor degree course

The F C Courtice Prize

V $100.00

C Best performance in PHPH2018 Medical Physiology 1 in course 3801 (BSc(Med) MBBS) or 3840 (BA BSc(Med) MB BS)

The School of Physiology and Pharmacology 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 (BSc MB BS)

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) MB BS) or 3840 (BA BSc(Med) MB BS)

The W E Glover Prize for Physiology

V $100.00

C The best performance in PHPH3014 Medical Physiology 2 in course 3801 (BSc(Med) MB BS), 3821 (BSc MB BS) or 3840 (BA BSc(Med) MB BS)

School of Psychiatry

The David Jeremy Keen Memorial Prize

V $50.00

C The best performance in PSCY2101 Human Behaviour in course 3801 (BSc(Med) MB BS) or 3840 (BA BSc(Med) MB BS) or PSYC2201 Human Behaviour in course 3821 (BSc MB BS)

The John Kerridge Memorial Prize

V $100.00

C The best performance in psychiatry in the final year of course 3801 (BSc(Med) MB BS), 3821 (BSc MB BS) or 3840 (BA BSc(Med) MB BS)

Undergraduate and Graduate University Prizes

School of Community Medicine

The John Hirshman International Health Prize

V Annual interest on $5,000.00

C The best performance in CMED9605 Health in Developing Countries for a student proceeding to the award of the degree of Master of Community Health or Master of Public Health

The Master of Community Health Prize

V Annual Interest on $5,000.00

C The best overall performance in the Master of Community Health degree course

School of Obstetrics and Gynaecology

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 Paediatrics

The Margaret Dance Memorial Award

V $500.00

C A good performance in paediatric studies by a student who undertakes elective study in Paediatrics within the teaching hospitals of the University

Graduate University Prizes

Faculty of Medicine

The Drug and Alcohol Foundation Prize

V $250.00

C The best essay or article on Alcoholism and/or Drug Abuse

Notes

Notes

Notes

The University of New South Wales • Kensington Campus

Theatres

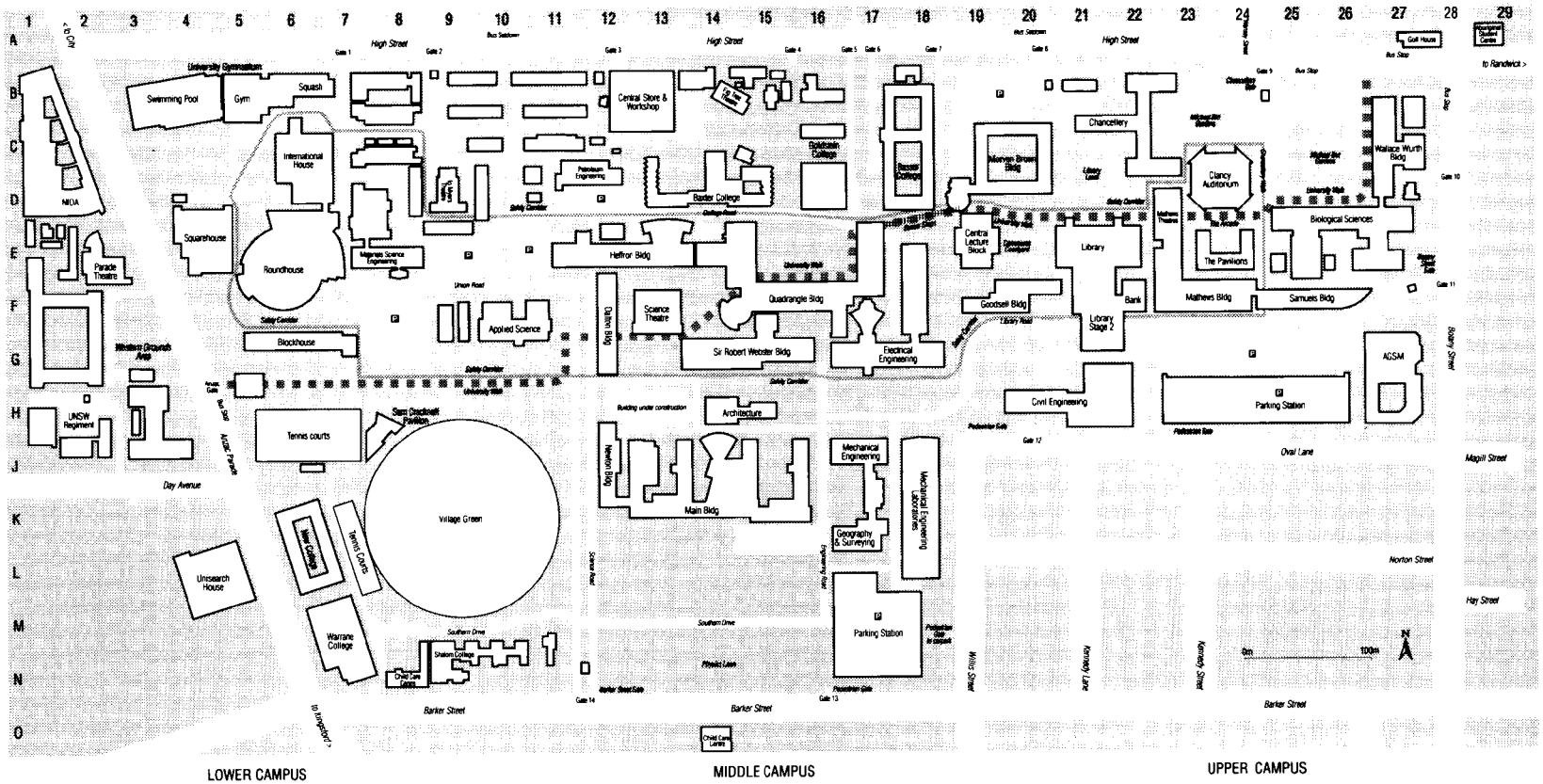
Biomedical Theatres E27
Central Lecture Block E19
Chemistry Theatres
(Dwyer, Mellor, Murphy, Nyholm, Smith) E12
Classroom Block *(Western Grounds)* H3
Fig Tree Theatre B14
Io Myers Studio D9
Keith Burrows Theatre J14
MacAuley Theatre E15
Mathews Theatres D23
Parade Theatre E3
Physics Theatre K14
Quadrangle Theatre E15
Rex Vowels Theatre F17
Science Theatre F13
Sir John Clancy Auditorium C24
Webster Theatre G15

Buildings

Applied Science F10
Arcade D24
Architecture H14
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
Heffron, Robert *(Chemistry)* E12
International House C6
John Goodsell *(Commerce and Economics)* F20
Kensington Colleges *(Office)* C17
Library *(University)* E21
Link B6
Main, Old K15
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
Pavilions E24
Philip Baxter College *(Kensington)* D14
Quadrangle E15
Sam Cracknell Pavilion H8
Samuels Building F25
Shalom College N9
Webster, Sir Robert G14
Unisearch House L5
University Regiment J2
University Union *(Roundhouse)* E6
University Union *(Blockhouse)* G6
University Union *(Squarehouse)* E4
Wallace Wurth School of Medicine C27
Warrane College M7

General

Aboriginal Resource & Research Centre E20
Aboriginal Student Centre A29
Accommodation *(Housing Office)* E15
Accounting E15
Admissions C22
Adviser for Prospective Students C22
Alumni Relations: *Pindari*, 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: 45 Beach Street Coogee
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
Centre for Membrane Science & Technology F10, K14
Chaplains E4
Chemical Engineering and Industrial Chemistry F10
Chemistry E12
Civil Engineering H20
Co-op Bookshop E15
Commerce and Economics *(Faculty Office)* F20
Communications Law Centre C15
Community Medicine D26
Computer Science and Engineering G17
Cornea and 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
Equal Employment Opportunity: 30 Botany Street
Randwick
Examinations C22
Facilities Department C22, B14A
Fees Office C22
Fibre Science and Technology G14
Food Science and Technology B8
French C20
Geography K17
Geomatic Engineering 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
Human Resources C22
Industrial Design G14
Industrial Relations and Organizational Behaviour F20
Information, Library & Archives Studies F23
Information Systems E15
Information Technology Unit F25
International Student Centre F9
IPACE Institute F23
Japanese Economic and Management Studies E15
Landscape Architecture K15
Law *(Faculty Office)* F21
Law Library F21
Legal Studies & Taxation F20
Liberal and General Studies C20
Library Lawn D21
Lost Property C22
Marine Science D26
Marketing F20
Materials Science and Engineering E8
Mathematics F23
Mechanical and Manufacturing Engineering J17
Media Liaison C22
Medical Education C27
Medicine *(Faculty Office)* B27
Microbiology and Immunology D26
Michael Birt Gardens C24
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
Psychology F23
Publications Section C22
Remote Sensing K17
Research Office: 34-36 Botany Street Randwick
Safety Science B11a
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, Housing etc E15
Counselling E15
Students' Guild E15
Swimming Pool B4
Textile Technology G14
Theatre and Film Studies B10
Town Planning K15
WHO Regional Training Centre C27
Wool and Animal Sciences G14
Works and Maintenance B14A



The University of New South Wales • Kensington Campus

UNSW

This Handbook has been specifically designed as a source of detailed reference information for first year re-enrolling undergraduate and postgraduate students.

Separate handbooks are published for:

Applied Science

Arts and Social Sciences

Built Environment

Commerce and Economics

Engineering

Law

Medicine

Professional Studies

Science

Australian Graduate School of Management (AGSM)

Australian Taxation Studies Program (ATAX)

College of Fine Arts (COFA)

University College, Australian Defence Force Academy (ADFA)

General Education

For fuller details about the University – its organization; staff members; description of disciplines; scholarships; prizes and so on, consult the University Calendar (Summary Volume). For further information on student matters consult the UNSW Student Guide.