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The University of New South Wales

Medicine

1986
Faculty Handbook

How to use this Handbook

The information in this book has been divided into **nine parts**.

General Information (pages 1-24) lists what you need to know about the University as a whole, introduces some of the services available and notes the most important rules and procedures. You should read this part in its entirety.

For further information about the University and its activities, see the University Calendar.

Faculty Information.

Undergraduate Study outlines the courses available in the faculty, together with detailed subject descriptions including subject number and title.

Undergraduate Study: Subject Descriptions lists additional subjects offered by the schools in the faculty. The schools are listed numerically. Information includes subject number, title and year taught.

Graduate Study is about higher degrees, including details of courses.

Graduate Study: Subject Descriptions lists each subject offered by the schools in the faculty. The schools are listed numerically.

Information included is as for **Undergraduate Study: Subject Descriptions**, above.

Conditions for the Award of Higher Degrees.

Scholarships and Prizes available at undergraduate and graduate level in the faculty.

Staff list.

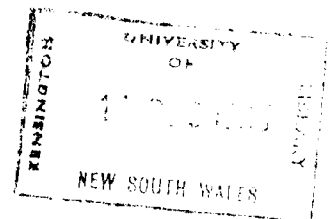


The University of New South Wales

PO Box 1 Kensington NSW Australia 2033 Phone 697 2222

Medicine

**1986
Faculty Handbook**



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The address of the University of
New South Wales is:

PO Box 1, Kensington
New South Wales, Australia 2033

Telephone: (02) 697 2222

Telegraph: UNITECH, SYDNEY

Telex: AA26054

Subjects, courses and any arrangements for courses including staff allocated, as stated in the Calendar or any Handbook or any other publication, announcement or advice of the University, are an expression of intent only and are not to be taken as a firm offer or undertaking. The University reserves the right to discontinue or vary such subjects, courses, arrangements or staff allocations at any time without notice.

Information in this Handbook has been brought up to date as at 9 September 1985, but may be amended without notice by the University Council.

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General Information

To obtain the maximum benefit from your studies you should make an effort to learn what facilities the University offers, to investigate the best methods of study and to discover as much as possible about the course for which you are enrolled.

This Handbook has been specially designed as a detailed source of reference for you in all matters related to your Faculty. This **General Information** Section is intended to help you put the Faculty into perspective with the University as a whole, to introduce you to some of the services available to students and to note some of the most important rules and procedures.

For fuller details about some aspects of the University and its activities you might need to consult the University Calendar.

Note: All phone numbers below are University extension numbers. If you are outside the University, dial 697 2222 and ask for the extension. Alternatively you may dial 697 and then the extension number. This prefix should only be used when you are certain of the extension that you require as callers using 697 cannot be transferred to any other number.

Some people who can help you

If you are experiencing difficulties in adjusting to the requirements of the University you will probably need advice. The best people to talk to on matters relating to progress in studies are your tutors and lecturers. If your problem lies outside this area there are many other people with specialized knowledge and skills who may be able to help you.

The **Student Services** staff, located on the ground floor of the Chancellery, will help those students who need advice and who have problems but who do not seem to be provided for by the other organizations and services mentioned. As well as dealing with general enquiries the staff is especially concerned with the problems of overseas, Aboriginal, and physically handicapped and disabled students. Enquire at Room G19, phone 3114.

The **Senior Assistant Registrar (Student Administration)**, Ms Judith Tonkin, is located on the ground floor of the Chancellery. For particular enquiries regarding illness and other matters affecting performance in examinations and assessment, graduation ceremonies, release of examination results and variations to enrolment programs, phone 3102 or 3097.

The **Senior Administrative Officer (Admissions)**, Mr John Beauchamp, is located on the ground floor of the Chancellery. General inquiries should be directed to 3095.

The **Senior Administrative Officer (Examinations)**, Mr John Grigg, is located on the ground floor of the Chancellery. Enquiries regarding examinations, including examination timetables and clash of examinations should be directed to 3088.

The **Adviser for Prospective Students**, Mrs Fay Lindsay, is located with the Careers and Employment Section and is available for personal interview. For an appointment phone the University switchboard.

The **Careers and Employment Section** is located in Hut E15c at the foot of Basser Steps. Enquiries should be directed to 3122.

The **Off-campus Housing Service** is located in Room G19 in the Chancellery. For assistance in obtaining suitable accommodation phone 3116.

Student Loans enquiries should be directed to Room G19 in the Chancellery, phone 3115.

The **Student Health Unit** is located in Hut E15b at the foot of Basser Steps. The Director is Dr Geoffrey Hansen. For medical aid phone 5427, 5426 or 5425.

The **Student Counselling and Research Unit** is located at the foot of Basser Steps. Dr Pat Cleary is the Head of the Unit. For assistance with educational or vocational problems ring 5418 or 5422 for an appointment.

The **University Librarian** is Mr Allan Horton. Library enquiries should be directed to 2686.

The **Chaplaincy Centre** is located in Hut E15a at the foot of Basser Steps.

The **Students' Union** has two offices on campus. One is located at the back of the Library Lawn (between the Chancellery and the Morven Brown Building), where the SU President, Education Vice President, Education Officer, Clubs and Societies Secretary and Postgraduate Officer are available to discuss student problems. The other is on the second floor of the Squarehouse, where the Secretary/Treasurer, Women's Officer, Overseas Student Director, the full-time Solicitor, *Tharunka* and *Campuswide* provide information and student services.

Cashier's Hours The University Cashier's office is open from 9.30 am to 1.00 pm and from 2.00 pm to 4.30 pm, Monday to Friday. It is open for additional periods at the beginning of Session 1. Consult noticeboards for details.

Calendar of Dates

The Academic Year

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

Session 1 commences on the first Monday of March.

1986

Faculties other than Medicine and University College/Australian Defence Force Academy

Session 1 (14 weeks)	3 March to 11 May <i>May Recess: 12 May to 18 May</i> 19 May to 15 June <i>Study Recess: 16 June to 22 June</i> <i>Midyear Recess: 23 June to 27 July</i>
Examinations	23 June to 9 July
Session 2 (14 weeks)	28 July to 24 August <i>August Recess: 25 August to 31 August</i> 1 September to 9 November <i>Study Recess: 10 November to 16 November</i>
Examinations	17 November to 5 December

Faculty of Medicine

First and Second Years	As for other faculties	
Third and Fourth Years	Term 1 (10 weeks)	20 January to 30 March
	Term 2 (9 weeks)	7 April to 11 May
	<i>May Recess:</i>	12 May to 18 May
		19 May to 15 June
	Term 3 (9 weeks)	23 June to 24 August
	<i>August Recess:</i>	25 August to 31 August
		1 September to 9 November
	Term 4 (10 weeks)	
Fifth Year	Term 1 (8 weeks)	20 January to 16 March
	Term 2 (8 weeks)	24 March to 18 May
	Term 3 (8 weeks)	26 May to 20 July
	Term 4 (8 weeks)	28 July to 21 September
	Term 5 (8 weeks)	29 September to 23 November

Australian Graduate School of Management

Term 1 (10 weeks) 3 March to 9 May
 Term 2 (10 weeks) 2 June to 8 August
 Term 3 (10 weeks) 1 September to
 7 November

Tuesday 25

Last day for undergraduate students who have completed requirements for pass degrees to advise the Registrar they are proceeding to an honours degree or do not wish to take out the degree for which they have applied for any other reason

University College/Australian Defence Force Academy

Session 1 (14 weeks) 3 March to 3 May
May Recess: 4 May to 18 May
 19 May to 20 June
Midyear Recess: 21 June to 13 July

Examinations 23 June to 13 July

Session 2 (13 weeks) 14 July to 22 August
August Recess: 23 August to 7 September
 8 September to 24 October

Examinations 25 October to 15 November

March

Monday 3

Session 1 begins — all courses except Medicine III, IV and V

Wednesday 5

List of graduands for April/May ceremonies and 1984 prizewinners published in *The Sydney Morning Herald*

Monday 10

Last day for notification of correction of details published in *The Sydney Morning Herald* on 6 March concerning April/May graduation ceremonies

Friday 14

Last day for acceptance of enrolment by new undergraduate students (late fee payable thereafter)

Thursday 27

Last day for acceptance of enrolment by undergraduate students re-enrolling in second and later years (late fee payable thereafter)

Friday 28

Good Friday — Public Holiday

Saturday 29

Easter Saturday — Public Holiday

Monday 31

Easter Monday — Public Holiday

January

Wednesday 1 Public Holiday — New Year's Day

Monday 6 List of graduands in Medicine for February Graduation Ceremony published in *The Sydney Morning Herald*

Friday 10 Last day for acceptance of applications by office of the Admissions Section for transfer to another undergraduate course within the University

Monday 13 Last day for applications for review of results of assessment

Monday 27 Public Holiday — Australia Day

February

Monday 3 Enrolment period begins for second and later year undergraduate students and graduate students enrolled in formal courses

Tuesday 4 Enrolment period begins for new undergraduate students and undergraduate students repeating first year

April

Friday 18

Last day for undergraduate students to discontinue without failure subjects which extend over Session 1 only

Friday 25

Anzac Day — Public Holiday

Wednesday 30

Confirmation of Enrolment forms despatched to all students

May

Friday 9

Last day for acceptance of corrected *Confirmation of Enrolment* forms

Monday 12

May Recess begins

Wednesday 14

Last day for undergraduate students completing requirements for degrees at the end of Session 1 to submit *Application for Admission to Degree* forms

Thursday 15

Publication of provisional timetable for June/July examinations

Sunday 18	May Recess ends	Monday 8	Last day for notification of correction of details published in <i>The Sydney Morning Herald</i> on 3 September concerning October graduation ceremonies
Friday 23	Last day for students to advise of examination clashes		
June		Friday 19	Last day for undergraduate students to discontinue without failure subjects which extend over Session 2 only
Tuesday 3	Publication of timetable for June/July examinations		
Monday 9	Queen's Birthday — Public Holiday	Monday 29	<i>Confirmation of Enrolment</i> forms despatched to all students
Sunday 15	Session 1 ends	Tuesday 30	Last day to apply to UCAC for transfer to another tertiary institution in New South Wales
Monday 16	Study Recess begins		
Sunday 22	Study Recess ends		
Monday 23	Midyear Recess begins Examinations begin	October Wednesday 8	Last day for acceptance of corrected <i>Confirmation of Enrolment</i> forms
July		Thursday 9	Publication of provisional examination timetable
Wednesday 9	Examinations end	Friday 10	Last day for applications from undergraduate students completing requirements for degrees at the end of Session 2 to submit applications for <i>Admission to Degree</i> forms
Monday 21	Assessment results mailed to students	Monday 6	Eight Hour Day — Public Holiday
Tuesday 22	Assessment results displayed on University noticeboards <i>To Friday 25 July:</i> Students to amend enrolment programs following receipt of June examination results	Friday 17	Last day for students to advise of examination timetable clashes
Sunday 27	Midyear Recess ends	Thursday 30	Publication of timetable for November examinations.
Monday 28	Session 2 begins		
August		November Sunday 9	Session 2 ends
Friday 8	Last day for students to discontinue without failure subjects which extend over the whole academic year	Monday 10	Study Recess begins
Monday 25	August Recess begins	Sunday 16	Study Recess ends
Tuesday 26	Last day for undergraduate students who have completed requirements for pass degrees to advise the Registrar they are proceeding to an honours degree or do not wish to take out the degree for which they have applied for any other reason	Monday 17	Examinations begin
Sunday 31	August Recess ends	December Friday 5	Examinations end
September		Monday 22	Assessment results mailed to students
Wednesday 3	List of graduands for October graduation ceremonies published in <i>The Sydney Morning Herald</i>	Tuesday 23	Assessment results displayed on University noticeboards
		Thursday 25	Christmas Day — Public Holiday
		Friday 26	Boxing Day — Public Holiday

1987

Faculties other than Medicine and University College/Australian Defence Force Academy

Session 1
(14 weeks) 2 March to 10 May
May Recess: 11 May to 17 May
 18 May to 14 June
Study Recess: 15 June to 21 June
Midyear Recess: 22 June to 26 July

Examinations 22 June to 8 July

Session 2
(14 weeks) 27 July to 23 August
August Recess: 24 August to 30 August
 31 August to 8 November
Study Recess: 9 November to 15 November

Examinations 16 November to 4 December

Faculty of Medicine

First and Second Years As for other faculties

Third and Fourth Years Term 1 (10 weeks) 19 January to 29 March
 Term 2 (9 weeks) 6 April to 10 May
May Recess: 11 May to 17 May
 18 May to 14 June
 Term 3 (9 weeks) 22 June to 23 August
August Recess: 24 August to 30 August
 Term 4 (10 weeks) 31 August to 8 November

Fifth Year Term 1 (8 weeks) 19 January to 15 March
 Term 2 (8 weeks) 23 March to 17 May
 Term 3 (8 weeks) 25 May to 19 July
 Term 4 (8 weeks) 27 July to 20 September
 Term 5 (8 weeks) 28 September to 22 November

Australian Graduate School of Management

Term 1 (10 weeks) 2 March to 8 May
 Term 2 (10 weeks) 1 June to 7 August
 Term 3 (10 weeks) 31 August to 6 November

University College/Australian Defence Force Academy

Session 1
(14 weeks) 2 March to 3 May
May Recess: 4 May to 17 May
 18 May to 19 June
Midyear Recess: 20 June to 12 July

Examinations 22 June to 10 July

Session 2
(13 weeks) 13 July to 23 August
August Recess: 24 August to 6 September
 7 September to 23 October

Examinations 26 October to 13 November

January

Thursday 1 Public Holiday (New Year)

Monday 5 List of graduands in Medicine for February Graduation Ceremony published in *The Sydney Morning Herald*

Friday 9 Last day for acceptance of applications by office of the Admissions Section for transfer to another undergraduate course within the University

Monday 12 Last day for applications for review of results of annual examinations

Monday 26 Australia Day — Public Holiday

February

Monday 16 Enrolment period begins for second and later year undergraduate students and graduate students enrolled in formal courses

March

Monday 2 Session 1 begins — all courses except Medicine III, IV and V

Friday 17 to Monday 20 Easter — Public Holiday

April

Saturday 25 Anzac Day — Public Holiday

Organization of the University

The University of New South Wales was first incorporated by an Act of Parliament in 1949, under the name of the New South Wales University of Technology.

In 1985 the University had 18,350 students and over 3,600 staff who worked in more than eighty buildings.

Arms of the University of New South Wales

The arms of the University are reproduced on the front cover of this handbook. The arms were granted by the College of Heralds in London, on 3 March 1952, and the heraldic description is as follows:

'Argent on a Cross Gules a Lion passant guardant between four Mullets of eight points Or a Chief Sable charged with an open Book proper thereon the word SCIENTIA in letters also Sable.

'The lion and the four stars of the Southern Cross on the Cross of St George have reference to the State of New South Wales which brought the University into being; the open book with SCIENTIA across its page reminds us of its original purpose. Beneath the shield is the motto 'Manu et Mente', ('with Hand and Mind') which is the motto of the Sydney Technical College, from which the University has developed. The motto is not an integral part of the Grant of Arms and could be changed at will; but it was the opinion of the University Council that the relationship with the parent institution should in some way be recorded.'

The University Colours

The colours of the University are black and gold.

The Council

The chief governing body of the University is the Council which has the responsibility of making all major decisions regarding its policy, conduct and welfare.

The Council consists of 29 members including parliamentary and ex officio members, members elected by the staff, students and graduates of the University and some appointed by the Minister for Education.

The Council meets at least five times per year and its members also serve on special committees dealing with, for example, academic matters, finance, buildings and equipment, personnel matters, student affairs and public relations.

The Chairman of the Council is the Chancellor, the Hon. Mr Justice Samuels.

The Professorial Board

The Professorial Board is one of the two chief academic bodies within the University and includes all the professors from the various faculties, non-professorial Heads of Schools and Chairmen of Faculty, and several ex-officio and appointed members. It deliberates on all questions such as

matriculation requirements, the content of courses, the arrangement of syllabuses, the appointment of examiners and the conditions for graduate degrees. Its recommendations on matters of major policy are presented to Council for its consideration and adoption.

The Faculties/Boards of Studies

The executive head of a faculty or board of studies is the dean, with the exception of the Australian Graduate School of Management, where the executive head is the director. Members of each faculty or board meet regularly to consider matters pertaining to their own areas of teaching and research, the result of their deliberations being then submitted to the Professorial Board.

The term 'faculty' is used in two distinct senses in the University. Sometimes it is used to refer to the group of schools comprising the faculty, and at others to the deliberative body of academic members of the Schools within the faculty.

The ten faculties are Applied Science, Architecture, Arts, Biological Sciences, Commerce, Engineering, Law, Medicine, Professional Studies and Science. In addition, the Board of Studies of the Australian Graduate School of Management (AGSM), the Board of Studies in General Education and the Academic Board of the University College, Australian Defence Force Academy fulfil a function similar to that of the faculties. The Board of Studies in Science and Mathematics, which was established to facilitate the joint academic administration of the Science and Mathematics degree course by the faculties of Biological Sciences and Science, considers and reports to the Professorial Board on all matters relating to studies, lectures and examinations in the Science and Mathematics degree course.

The Schools

Subjects come under the control of the individual schools (eg the School of Chemistry, the School of Accountancy). The head of the school in which you are studying is the person in this academic structure with whom you will be most directly concerned.

Executive Officers

As chief executive officer of the University, the Vice-Chancellor and Principal, Professor Michael Birt, is charged with managing and supervising the administrative, financial and other activities of the University.

He is assisted in this task by three Pro-Vice-Chancellors, together with the Deans and the two heads of the administrative divisions.

General Administration

The administrative work of the University is divided between the Deputy Principal (Administration) who is responsible for registrarial, property and staffing matters and the Deputy Principal (Planning and Information) who is responsible for planning information and analysis, finance and the provision of computing services.

Student Representation on Council and Faculties/Boards

Three members of the University Council may be students elected by students. All students who are not full-time members of staff are eligible to stand for a two-year term of office. The students who are elected to the Council are eligible for election to the committees of Council.

Students proceeding to a degree or a graduate diploma may elect members for appointment by the Council to their faculty or board of studies. Elections are for a one-year term of office.

Open Faculty/Board Meetings

If you wish you may attend a faculty or board meeting. You should seek advice at the office of the faculty whose meeting you wish to attend.

Award of the University Medal

The University may award a bronze medal to undergraduate students who have achieved highly distinguished merit throughout their degree course.

Identification of Subjects by Numbers

For information concerning the identifying number of each subject taught in each faculty as well as the full list of identifying numbers and subjects taught in the University, turn to the first page of the section **Subject Descriptions**. This list is also published in the Calendar.

Textbook Lists

Textbook lists are issued early in the year and are available from School and Faculty offices for re-enrolling students and from the Unisearch House Enrolment Centre for first year students.

Textbook Costs and Course-Related Costs

Students should allow quite a substantial sum for textbooks. This can vary from \$250 to \$600 per year depending on the course taken. These figures are based on the cost of new books. The Students' Union operates a secondhand bookshop.

Information about special equipment costs, accommodation charges and cost of subsistence on excursions, field work, etc., and for hospital residence (medical students) is available from individual schools.

Co-operative Bookshop

Membership is open to all members of the community, on initial payment of a fee of \$12, refundable after 2 years.

General Studies Program

Almost all undergraduates in faculties other than Arts and Law are required to complete a General Studies program. The Department of General Studies within the Board of

Studies in General Education publishes its own Handbook which is available free of charge. All enquiries about General Studies should be made to the General Studies Office, Room G56, Morven Brown Building, phone 2436.

Student Services and Activities

Accommodation

Residential Colleges

There are seven residential colleges on campus. Each college offers accommodation in a distinctive environment which varies from college to college, as do facilities and fees. A brief description of each college is given below, and further information may be obtained directly from the individual colleges. In addition to basic residence fees, most colleges make minor additional charges for such items as registration fees, caution money or power charges. Intending students should lodge applications before the end of October in the year prior to the one in which they seek admission. Most colleges require a personal interview as part of the application procedure.

The Kensington Colleges

The Kensington Colleges comprise Basser College, Goldstein College and Philip Baxter College. They house 416 men and women students, as well as tutorial and administrative staff members. Some aspects of traditional College life are maintained in an atmosphere which emphasises co-operation and mutual respect. Apply in writing to the Master, PO Box 24, Kensington, NSW 2033.

International House

International House accommodates 154 male and female students from Australia and up to thirty other countries. Generally about 25 disciplines are represented. College life is multicultural and multidisciplinary. Eight tutors are available to help students. Apply in writing to the Warden, International House, PO Box 1, Kensington, NSW 2033.

New College

New College is an Anglican college and it provides accommodation (with all meals) for 220 graduates and undergraduates, without regard to race, religion, or sex. The College has its own resident tutors, and a Senior Resident Academic Fellow, who sponsors a wide range of activities and encourages inter-disciplinary discussion. Apply to the Master, New College, Anzac Parade, Kensington 2033 (telephone 662 6066).

Shalom College

Shalom College is a Jewish residential college. It provides accommodation for 86 men and women students. Non-resident membership is available to students who wish to avail themselves of the Kosher dining room and tutorial facilities.

Fees are payable on a session basis. Conferences are catered for, particularly with Kosher requirements. Rates are available on application. Apply in writing to the Master, Shalom College, the University of New South Wales, PO Box 1, Kensington, NSW 2033.

Warrane College

Warrane College provides accommodation for 190 men and is open to students of all ages, backgrounds and beliefs. The College offers a comprehensive tutorial program along with a wide range of activities, professional orientation and opportunities to meet members of the University staff informally. Non-resident membership is available to those students who wish to participate in College activities and to make use of its facilities. The general spiritual care of the College has been entrusted to Opus Dei, a personal prelature of the Catholic Church. Enquiries: The Master, Warrane College, PO Box 123, Kensington 2033. Telephone (02) 662 6199.

Creston Residence

Creston Residence offers accommodation to 25 undergraduate and graduate women students. Activities and tutorials are open to non-resident students. The spiritual activities offered at Creston are entrusted to the Women's Section of Opus Dei. Enquiries: 36 High Street, Randwick 2031. Telephone (02) 398 5693.

Other Accommodation

Off-campus Accommodation

Students requiring other than College accommodation may seek assistance in Room G19, the Chancellery, in obtaining suitable accommodation in the way of rooms with cooking facilities, flats, houses, share flats, etc. Extensive listings of all varieties of housing are kept up-to-date throughout the year and during vacations. Accommodation in the immediate vicinity of the University is not usually easy to find at short notice, and is expensive.

No appointment is necessary but there may be some delay in February and March. The Housing staff are always happy to discuss any aspect of accommodation.

Special pamphlets on accommodation, lists of estate agents and hints on house-hunting are available on request.

Associations, Clubs and Societies

The Sports Association

The Sports Association is a student organization within the University which caters for a variety of sports for both men and women. In December 1952 the University Council approved the establishment of the Sports Association, which then consisted of five clubs. As the University has grown the Association has expanded, and it now includes thirty-seven clubs.

The Association office is situated on the 3rd floor, Square-house, E4, lower campus, and can be contacted on extension 4880. The control of the Association is vested in the General Committee which includes delegates from all the clubs.

Membership is compulsory for all registered students, and the annual fee is as set out later, in **Rules and Procedures, Enrolment Procedures and Fees Schedules**, section **15. Fees**. Membership is also open to all members of staff and graduates of the University on payment of a fee as prescribed in the By-laws of the Association. All members are invited to take part in any of the activities arranged by the Association, and to make use of the University's sporting and recreational facilities.

The Association is affiliated with the Australian Universities Sports Association (AUSA) which is the controlling body for sport in all Australian universities.

School and Faculty Associations

Many schools and faculties have special clubs with interests in particular subject fields. Enquire at the relevant Faculty or School Office for information.

Australian Armed Services

The University maintains links with the Royal Australian Navy, the Australian Army Reserve and the Royal Australian Air Force, and opportunities exist for student participation in their activities.

Chaplaincy Centre

The University Chapel

The University provides a small chapel for the use of all faiths. In its temporary housing it is located in Hut E15a near the Chemistry Building. The chapel is available for services of worship by arrangement with the full-time chaplains. At other times it is available for private meditation to all members of the University.

Chaplaincy Service

A Chaplaincy Service is available within the University of New South Wales for the benefit of students and staff.

The service offers fellowship, personal counselling and guidance, together with leadership and biblical and doctrinal studies and in worship. The chaplains maintain close liaison with student religious societies.

The chaplains are located in Hut E15a at the foot of Basser steps, which also contains the temporary chapel.

Student Services

The Student Services staff, located on the ground floor of the Chancellery, will help those students who have problems and need advice but who do not seem to be provided for by the other organizations and services mentioned. As well as dealing with those enquiries and with off-campus housing and student loan matters, they are especially concerned with the problems of physically handicapped and disabled students, overseas students, and aboriginal students.

All enquiries should be made either at Room G19 or by telephoning 697 3111.

Sport and Recreation Section

The Sport and Recreation Section seeks ways to encourage students and staff to include exercise as an essential part of their daily lives. It does this through Sports Clubs on a competitive basis and by offering physical recreation on a more casual basis to the University community.

The Section serves the Sports Association and its thirty-seven constituent clubs and is responsible for the continuing management of the Physical Education and Recreation Centre at which recreational programs are available for both students and staff.

It makes bookings for use of sporting facilities including tennis courts and playing fields. This section is located on the 3rd Floor, Squarehouse, E4, lower campus. The various services may be contacted by telephoning Recreation Program 697 4884; Grounds Bookings 697 4878; Tennis Bookings 697 4877; Sports Association 697 4880.

Physical Education and Recreation Centre

The Sport and Recreation Section provides a recreational program for students and staff at the Physical Education and Recreation Centre. The Centre consists of eight squash courts, seven tennis courts, a main building, and a 50-metre indoor heated swimming pool. The main building has a large gymnasium and practice rooms for fencing, table tennis, judo, weight-lifting, karate and jazz ballet, also a physical fitness testing room. A new three-storey 'Link Building' will be completed by mid-1986 between the gymnasium and squash courts. It provides three additional training rooms on the upper floors and administrative and control functions at ground floor level. The recreational program includes intramurals, teaching/coaching, camps. The Centre is located on the lower campus adjacent to High Street. The Supervisor at PERC may be contacted by telephoning 697 4884.

Student Counselling and Research Unit

The Student Counselling and Research Unit provides counselling services to students, prospective students, parents and other concerned persons.

Together with the Careers and Employment Section, the unit is located in the huts near the foot of Basser Steps (access from College Road or Engineering Road).

Appointments are offered throughout the academic year and during recesses between 8 am to 5 pm on week days (up to 7 pm on some evenings). A 'walk-in' service for short interviews is available between 9 am and 5 pm. Appointments may be made by telephoning 697 5418 between 8.30 am and 5.30 pm.

Counsellors offer assistance in planning, decision-making, problem solving, social and emotional development, and dealing with grievances. Group programs on such topics as study, tutorial and examination skills, stress management, communicating, and self-confidence are offered each session. Brochures are available from the receptionist.

Careers and Employment Section

The Careers and Employment Section provides careers advice and assistance in finding employment.

Assistance with careers and permanent employment opportunities includes: the regular mailing of a *Job Vacancy Bulletin* to registered students and graduates, a Library, and a Campus Interview Program in which final year students have the opportunity to speak to employers regarding employment prospects.

Assistance is also provided in obtaining course-related employment during long vacations as required by undergraduates in Engineering and Applied Science.

Together with the Student Counselling and Research Unit, this section is located in the huts near the foot of Basser Steps (access from College Road or Engineering Road).

For further information, telephone 697 5470.

Student Health Unit

A student health clinic and first aid centre is situated within the University. The medical service although therapeutic is not intended to replace private or community health services. Thus, where chronic or continuing conditions are revealed or suspected the student may be referred to a private practitioner or to an appropriate hospital. The health service is not responsible for fees incurred in these instances. The service is confidential and students are encouraged to attend for advice on matters pertaining to health.

The service is available to all enrolled students by appointment, free of charge, between 9 am and 5 pm Mondays to Fridays. For staff members, immunizations are available, and first aid service in the case of injury or illness on the campus.

The centre is located in Hut E15b on the northern side of the campus in College Road at the foot of the Basser Steps.

Appointments may be made by calling at the centre or by telephoning 697 5425, 697 5426 or 697 5427 during the above hours.

The Family Planning Association of NSW conducts clinics at the Student Health Unit and at the adjacent Prince of Wales Hospital which are available for both staff and students. Appointments may be made for the Student Health Unit clinic by telephoning 588 2833 or for the Prince of Wales Hospital clinics by telephoning 399 0111.

The Students' Union

The Students' Union was formed in 1952 as an organization, duly recognized by the University Council, to represent the student body and to provide a central organization for the administration of student activities. In the words of its constitution 'The Students' Union is formed for the purpose of advancing the interests of University men and women, facilitating their general scientific and technical education, and fostering a University spirit among them'.

The Students' Union affords a recognized means of communication between the student body and the University administration, and represents its members in all matters affecting their interests. It aims to promote the cultural, educational and recreational life of the University and to encourage a permanent interest among graduates in the life and progress of student activities within the University. The Students' Union also makes representations to government and other bodies outside the University on behalf of its members.

Membership of the Students' Union is compulsory for all registered students of the University; the annual subscription for full-time and part-time students is set out later, in **Rules and Procedures, Enrolment and Procedures and Fees Schedules**, section 15. **Fees.** Only those persons who were enrolled as Life Members prior to January 1 1985, shall retain such membership.

The Students' Union is governed by a Council consisting in the main of elected student representatives from the various faculties of the University. There are also representatives of the University Council, Life Members, the Staff Association and the Sports Association. The Council is elected annually in May-June.

The Students' Union has three full-time officers who are elected each year by popular ballot. They are the President, who is mainly the political figure-head of the Union; the Secretary/Treasurer, who organizes the smooth operation of the SU offices, keeps the membership rolls up to date, and oversees the financial operations; and the Women's Officer who represents women on campus and formulates, maintains

and co-ordinates the Students' Union policy on women's affairs.

Other officers are the Education Vice-President, who works towards the implementation of Students' Union education policy; the Education Officer concerned with helping students with problems relating to TEAS, Show-Cause and other matters relevant to their courses; the Vice-President who ensures the efficient running of CASOC; and the Director of Overseas Students who deals with specific problems these students may encounter while in Australia.

The activities in which the Students' Union is involved include:

1. Publication of the Student Paper *Tharunka*.
2. Production of the student video program *Campuswide*.
3. A free legal service run by a qualified lawyer employed by the Students' Union Council.
4. The Secondhand Bookshop for cheap texts.
5. A child care centre, *House at Pooh Corner*.
6. CASOC (Clubs and Societies on Campus) which provides money from the SU for affiliated clubs and societies on campus.
7. A video service with access for students to equipment and advice.
8. A noticeboard for casual job vacancies.
9. Organization of orientation for new students.

The SU has two offices on campus. One is located at the back of the Library Lawn (between the Chancellery and the Morven Brown Building), where the SU President, Education Vice-President, Education Officer, Clubs and Societies Secretary and Postgraduate Officer are available to discuss student problems. The other is on the Second Floor of the Squarehouse (above the bar) at the bottom end of campus, where the Secretary/Treasurer, Women's Officer, Overseas Student Director, the full-time Solicitor, *Tharunka* and *Campuswide* provide information and student services.

The University Library

The University libraries are mostly situated on the upper campus. The library buildings house the Social Sciences and Humanities Library on Level 4, the Physical Sciences Library on Level 7 and the Law Library on Level 8. The undergraduate collection is on Levels 3 and 4. The Biomedical Library is in the western end of the Mathews Building and is closely associated with libraries in the teaching hospitals of the University.

For details consult **Faculty Information** in the relevant Faculty Handbook.

There are also library services at other centres:

- The Water Reference Library situated at Manly Vale (telephone 948 0261) which is closely associated with the Physical Sciences Library.
- The library at the Australian Defence Force Academy, ACT, serving the Faculty of Military Studies.

Each library provides reference and lending services to staff and students and each of the libraries on the Kensington campus is open throughout the year during the day and evening periods. The exact hours of opening vary during the course of the academic year. For recorded hours of opening telephone 697 2687.

Staff and students normally use a machine-readable identification card to borrow from the University libraries.

The University Union

The University Union provides the amenities which students, staff and graduates require in their daily University life and thus facilitates their knowing and understanding one another through associations outside the lecture room, the library and other places of work.

The Union is housed in a range of buildings across the campus, principal among which are the Roundhouse, the Blockhouse and the Squarehouse located near the Anzac Parade entrance to the University. Membership of the Union is compulsory for all registered students and is open to all members of staff and graduates of the University.

The control of the Union is vested in the Board of Management whose Chief Executive Officer is the Warden.

The Union operates a licensed Bar and twelve Food Service points on the campus, providing services ranging from take-away snacks and cafeteria-type meals to an à la carte restaurant operation.

Shops run directly by the Union are the Logo Shop (University-crested gifts, mementos and clothing), two newsagency/stationery shops, one stationery shop specializing in architecture requisites and an ice cream/confectionery shop. Other facilities operating within buildings occupied by the Union are banks, a credit union agency, hairdressers and a beauty salon, barber, delicatessen, casual clothing shop, pharmacy, dentist, optical dispensing and travel services.

Showers, meeting, games, music practice, reading, craft and dark rooms are provided as well as a Student Resource Area where photocopying, screen printing, stencil cutting and typewriter services and equipment hire are available.

The Union's cultural activities program encompasses creative leisure classes, lunch hour concerts and films, market days and exhibitions.

Further information on Union programs, activities and services is provided in the Annual Union Handbook and in the Creative Leisure Classes and Activities brochures published each session.

Financial Assistance to Students

Tertiary Education Assistance Scheme

Under this scheme, which is financed by the Commonwealth Government, assistance is available for full-time study in approved courses, to students who are not bonded and who are permanent residents of Australia, subject to a means test on a non-competitive basis. The allowances paid are unlikely to be sufficient, even at the maximum rate, for all the living expenses of a student. Family help and/or income from vacation or spare-time work would also be needed.

Students in the following types of university courses are eligible for assistance:

- Undergraduate and graduate bachelor degree courses;
- Graduate diplomas;
- Approved combined bachelor degree courses;
- Masters qualifying courses (one year).

The rates of allowance and conditions for eligibility are set out in a booklet obtainable from the Commonwealth Department of Education.

It is most important that students advise the TEAS office if at any time they change or discontinue their study programs, as their eligibility for benefits might be affected.

Other Financial Assistance

In addition to the Tertiary Education Assistance Scheme financed by the Australian Government the following forms of assistance are available:

1. *Deferment of Payment of Fees* Deferments may be granted for a short period, usually one month, without the imposition of a late fee penalty, provided the deferment is requested prior to the due date for fee payments.

2. *Short Term Cash Loans* Donations from various sources have made funds available for urgent cash loans not exceeding \$100. These loans are normally repayable within one month.

3. *The Commonwealth Government* has made funds available to the University to provide loans to students in financial difficulty. The loans are to provide for living allowances and other approved expenses associated with attendance at university. Students are required to enter into a formal agreement with the University to repay the loan. The University is unable to provide from the fund amounts large enough for all or even a major part of the living expenses of a student.

Students who are in extremely difficult financial circumstances may apply for assistance by way of a grant. In order to qualify for a grant a student must generally show that the financial difficulty has arisen from exceptional misfortune. Grants are rarely made.

The University has also been the recipient of donations from the Arthur T. George Foundation, started by Sir Arthur George and his family, for the endowment of a student loan fund.

In all cases assistance is limited to students with reasonable academic records and whose financial circumstances warrant assistance.

Enquiries about all forms of financial assistance should be made at the office of Student Services, Room G19, the Chancellery.

Financial Assistance to Aboriginal Students

Financial assistance is available to help Aboriginal students from the Commonwealth Government's Aboriginal Study Grant Scheme. Furthermore, Aboriginal students may apply for loans from the Student Loan Funds.

The University has also received a generous bequest from the estate of the late Alice Brooks Gange for the education of Australian aborigines within the University. Under the terms of this Bequest the Vice-Chancellor approved the establishment of a Centre for Aboriginal Students. This Centre, which began operating in 1985, provides support for Aboriginal students who are enrolled in the University and who wish to use the Centre and its resources. The Centre has a Resident Supervisor.

All enquiries relating to these matters should be made at the office of Student Services, Room G19, the Chancellery.

Rules and Procedures

The University, in common with other large organizations, has established rules and procedures which are designed for the benefit of all members of the University. In some cases there are penalties (eg fines or exclusion from examinations) for non-compliance. Any student who, after carefully reading the rules set out in the following pages, requires further information on their application should seek further advice, in the first instance, at the Enquiry Counter in the North Wing of the Chancellery Building.

General Conduct

The University has not considered it necessary to formulate a detailed code of rules relating to the general conduct of students. Enrolment as a student of the University, however, involves an undertaking to observe the regulations, by-laws and rules of the University, and to pay due regard to any instructions given by any officer of the University.

Appeals

Section 5(c) of Chapter III of the By-laws provides that 'Any person affected by a decision of any member of the Professorial Board (other than the Vice-Chancellor) in respect of a breach of discipline or misconduct may appeal to the Vice-Chancellor, and in the case of disciplinary action by the Vice-Chancellor, whether on appeal or otherwise, to the Council'.

Admission and Enrolment

The Student Enquiry Counter, located near the Cashier in the Chancellery on the upper campus, provides information for students on admission requirements, undergraduate and graduate courses and enrolment procedures. Faculty handbooks and the Calendar may be purchased from the Cashier. The Enquiry Counter is open from 9 am to 1 pm and 2 pm to 5 pm, Monday to Friday. During enrolment it is also open on some evenings.

Information may be obtained here about admission to first year undergraduate courses, special admission, admission with advanced standing and admission on overseas qualifications. Applications are also received from students who wish to transfer from one course to another, resume their studies after an absence of twelve months or more, or seek any concession in relation to a course in which they are enrolled.

Applications for admission to undergraduate courses from students who do not satisfy the requirements for admission (see section on **Admission Requirements**) are referred by the Admissions Section to the Admissions Committee of the Professorial Board.

It is essential that the closing dates for lodgement of applications are adhered to. For further details see the section on **Enrolment Procedures and Fees**.

Students wishing to enrol as higher degree candidates should first consult the Head of the School in which they wish to study. An application is then lodged on a standard form and the Postgraduate Section, after obtaining a recommendation from the Head of School, refers the application to the appropriate Faculty or Board of Studies Higher Degree Committee.

An Adviser for Prospective Students, Mrs Fay Lindsay, is located in the huts near the foot of Basser Steps (access from Engineering Road), and is available for personal interview with those who require additional information about the University.

First Year Entry

Those seeking entry to first year courses in one or more of twenty-two tertiary institutions in the State including all universities are required to lodge a single application form with the Universities and Colleges Admissions Centre (GPO Box 7049, Sydney 2001). On the application form provision is made for applicants to indicate preferences for courses available in any one of the seven universities and the other tertiary institutions. Students are notified individually of the result of their applications and provided with information

regarding the procedures to be followed in order to accept the offer of a place at this university. Enrolment is completed at the Enrolment Bureau, Unisearch House, 221 Anzac Parade, Kensington.

Deferment of First Year Enrolment

Students proceeding directly from school to University who have received an offer of a place may request deferment of enrolment for one year and will usually receive permission providing they do not enrol at another tertiary institution in that year.

Enrolment Procedures and Fees Schedules 1986

1. Introduction

All students, except those enrolling in graduate research degree courses (see sections 5. and 6. below), must lodge an authorized enrolment form with the Cashier either on the day the enrolling officer signs the form or on the day any required General Studies electives are approved.

All students, except those enrolling in graduate research degree courses and those exempted as set out in section 17. below, should on that day also either pay the required fees or lodge an enrolment voucher or other appropriate authority.

Such vouchers and authorities are generally issued by the NSW Department of Education and the NSW Public Service. They are not always issued in time and students who expect to receive an enrolment voucher or other appropriate authority but have not done so should pay the student activities fees and arrange a refund later. Such vouchers and authorities are not the responsibility of the University and their late receipt is not to be assumed as automatically exempting a student from the requirements of enrolling and paying fees.

If a student is unable to pay the fees the enrolment form must still be lodged with the Cashier and the student will be issued with a 'nil' receipt. The student is then indebted to the University and must pay the fees by the end of the second week of the session for which enrolment is being effected.

Penalties apply if fees are paid after the time allowed (see section 16. below) unless the student has obtained an extension of time (see section 13. below) in which to pay fees from the Student Enquiry Counter, the Chancellery. Such an application must be made before the fee is due. Payment may be made through the mail, in which case it is important that the student number be given accurately. Cash should not be sent through the mail.

2. New Undergraduate Enrolments

Persons who are applying for entry in 1986 must lodge an application for selection with the Universities and Colleges Admissions Centre, GPO Box 7049, Sydney 2001, by 1 October 1985.

Those who are selected will be required to complete enrolment at a specified time before the start of Session 1. Compulsory student activities fees should be paid on the day.

In special circumstances, however, and provided class places are still available, students may be allowed to complete enrolment after the prescribed time.

Application forms and details of the application procedures may be obtained from the Student Enquiries Counter, Ground Floor, North Wing of the Chancellery Building.

3. Re-enrolment

See also sections 4., 6. and 7. below.

Students who are continuing courses (or returning after approved leave of absence) should enrol through the appropriate school in accordance with the procedures set out in the current *Enrolment Procedures* booklet, available from the Student Enquiry Counter in the Chancellery and from School offices. Undergraduate students who have completed part of a course and have been absent without leave need to apply for entry through the Universities and Colleges Admissions Centre, GPO Box 7049, Sydney 2001, by 1 October 1985.

4. Restrictions Upon Re-enrolling

Students who in 1985 have infringed the rules governing re-enrolment should not attempt to re-enrol in 1986 but should follow the written instructions they will receive from the Registrar in December 1985.

5. New Research Students

Students enrolling for the first time in graduate research degree courses will be advised by letter concerning the method of enrolment. Enrolment other than in accordance with the procedure set out in this letter will incur a penalty (see section 16. below).

6. Re-enrolling Research Students

Students undertaking research degree courses (course codes 0-2999) will be re-enrolled automatically each year and sent an account for any fees due.

7. Submission of Project Report

Students registered for formal masters degree courses (course codes 8000-9999) who at the commencement of Session 1 have completed all the work for a degree or diploma except for the submission of the relevant project report are required to re-enrol by the end of the second week

of Session 1. Completion of enrolment after then will incur a penalty (see section 16. below).

Information about possible student activities fees exemption is set out in section 17. (10) below.

8. Enrolments by Miscellaneous Students

Enrolments by Miscellaneous students are governed by the following rules:

(1) Enrolment in a particular subject or subjects as a miscellaneous student — ie as a student not proceeding to a degree or diploma — may be permitted provided that in every case the Head of School offering the subject considers that the student will benefit from the enrolment and provided also that accommodation is available and that the enrolment does not prevent a place in that subject being available to a student proceeding to a degree or diploma.

(2) A student who is under exclusion from any subject in the University may not enrol as a miscellaneous student in that subject.

(3) A student who is under exclusion from any course in the University may not enrol in any subject which forms a compulsory component of the course from which the student is excluded.

(4) A student who is subsequently admitted to a course of the University for which any subjects completed as a miscellaneous student form a part may receive standing for those subjects.

(5) There are quota restrictions on the number of students allowed to enrol as miscellaneous, irrespective of whether they have approval from the Head of School. Applicants with written Head of School approval may be permitted to enrol providing there are places available in the quotas.

(6) As a general rule the University does not permit miscellaneous students to enrol in first year undergraduate subjects. Enquiries concerning eligibility for enrolment may be made at the Student Enquiry Counter, the Chancellery (telephone 697 3095).

9. Final Dates for Completion of Enrolment

No enrolments for courses extending over the whole year or for Session 1 only will be accepted from new students after the end of the second week of Session 1 (14 March 1986) except with the express approval of the Registrar and the Heads of the Schools concerned; no later year enrolments for courses extending over the whole year or for Session 1 only will be accepted after the end of the fourth week of Session 1 (28 March 1986) except with the express approval of the Registrar and the Heads of the Schools concerned. No enrolments for courses in Session 2 only will be accepted after the end of the second week of Session 2 (8 August 1986) except with the express approval of the Registrar and the Heads of the Schools concerned.

10. Student Card — Conditions of Issue

All students enrolled in degree or diploma courses or as miscellaneous students are issued with a University of New South Wales Student Card. All students are issued with cards on their initial enrolment.

The number appearing on the card below the student's name is the student registration number used in the University's records. This number should be quoted in all correspondence.

(1) The card must be carried at the University and shown on request. It must be presented when borrowing from the University libraries, when using Library facilities and when applying for concessions.

(2) The card is not transferable.

(3) The student to whom the card has been issued must notify the Circulation Department of the Library of its loss or theft. Failure to do so may result in the cardholder being held responsible for items issued on the card after its loss or theft.

(4) The card is valid only for the period of enrolment as indicated on the receipt issued by the Cashier at enrolment each year.

(5) The cardholder accepts responsibility for all Library books issued on his/her card and agrees to return books by the due date.

(6) If the card is damaged or becomes otherwise unusable, it is the cardholder's responsibility to seek replacement.

(7) The card always remains the property of the University and must be returned to it when the holder leaves the University.

11. Payment of Fees

The fees and charges which are payable include those charges raised to finance the expenses incurred in operating activities such as the University Union, the Students' Union, the Sports Association, and the Physical Education and Recreation Centre. Penalty payments are also incurred if a student fails to complete procedures as required. Charges may also be payable, sometimes in the form of a deposit, for the hiring of kits of equipment in certain subjects. Accommodation charges, costs of subsistence on excursions, field work etc, and for hospital residence (medical students) are payable in appropriate circumstances.

12. Assisted Students

Scholarship holders and sponsored students who have not received an enrolment voucher or appropriate letter of authority from their sponsor at the time when they are enrolling should pay their own fees and a refund will be made when the enrolment voucher or letter of authority is subsequently lodged with the Cashier.

Those unable to pay their own fees in these circumstances can apply for an extension of time (see section 13. below) in which to pay. Such an application must be made before the fees are due.

13. Extension of Time

Students who are unable to pay fees by the due date may apply for an extension of time, which may be granted in extenuating circumstances. Such applications must be made, in writing, before the due date and lodged at the student Enquiry Counter, the Chancellery.

14. Failure to Pay Fees and Other Debts

Students who fail to pay prescribed fees or charges or are otherwise indebted to the University and who fail either to make a satisfactory settlement of indebtedness upon receipt of due notice or to receive a special exemption cease to be entitled to the use of University facilities. Such students are not permitted to enrol for a further session, to attend classes or examinations, or to be granted any official credentials. In the case of students enrolled for Session 1 only or for both Sessions 1 and 2 this disbarment applies if any portion of fees is outstanding after the end of the eighth week of Session 1 (25 April 1986). In the case of students enrolled for Session 2 only this disbarment applies if any portion of fees is outstanding after the end of the sixth week of Session 2 (5 September 1986).

In special cases the Registrar may grant exemption from the disqualification referred to in the preceding paragraph upon receipt of a written statement setting out all relevant circumstances.

15. Fees

Fees and penalties quoted are current at the time of publication but may be amended by the University without notice.

University Union Entrance Fee

Payable on first enrolment \$40

Students enrolling for only one session must pay the full University Union entrance fee.

Student Activities Fees

All students (with the exceptions set out in section 17. below) are required to pay the following fees if enrolling for a program involving two sessions. Those enrolling for only one session will pay the full University Union Entrance Fee, if applicable, and one-half of any other fees due.

Students who consider themselves eligible for life membership of the University Union, the Sports Association, or the Students' Union, should make enquiries about the matter at the offices of those bodies.

Students often seek exemption from some or all of the student activities fees for reasons other than those set out in section 17. below. It is stressed that the fees charged are a contribution by students towards services and amenities for the University community (both now and in the future) and exemption from them cannot be claimed because a student is unable or unwilling to make use of some of those services or amenities.

Student Activities Fees are adjusted annually by a system of indexation and those set out below have been approved for 1986.

University Union annual subscription \$115

Sports Association annual subscription \$25

Students' Union Annual Subscription

Students enrolling in full-time courses \$34

Students enrolling in part-time courses or as miscellaneous students \$28

Miscellaneous Fund annual fee \$40

This fee is used to finance expenses generally of a capital nature relating to student activities and amenities. Funds are allocated for projects recommended by the Student Affairs Committee and approved by the University Council.

Special Examination Fees

Examinations conducted in special circumstances for each subject \$20

Review of examination results for each subject \$20

Other Charges

In addition to the fees outlined above and depending on the subject being taken, students may be required to make a payment for equipment; money so paid is, in general, refunded if the equipment is returned in satisfactory condition.

16. Penalties

(1) Failure to lodge enrolment form according to enrolment procedure \$20

(2) Payment of fees after end of second week of session \$20

(3) Payment of fees after end of fourth week of session \$40

Penalties (1) and (2) or (1) and (3) may accumulate.

17. Exemptions — fees

Students often seek exemption from the fees for reasons other than those set out below. It is stressed that the fees charged are a contribution by students towards services and amenities for the University community (both now and in the future) and exemption from them cannot be claimed because a student is unable or unwilling to make use of some of those services or amenities.

(1) Life members of the University Union, the Sports Association, and Students' Union are exempt from the relevant fee or fees.

Students who consider themselves eligible for life membership of the University Union, the Sports Association, or the Students' Union, should make enquiries about the matter at the offices of those bodies.

(2) Students enrolled in courses classified as *External* are exempt from all Student Activities Fees and the University Union Entrance Fee.

(3) Students enrolled in courses at the University College (Australian Defence Force Academy) are exempt from the Student Activities Fees and the University Union Entrance Fee in section 15. above but shall pay such other fees and charges as the Council may from time to time determine.

(4) University Union fees and subscriptions may be waived by the Registrar for students enrolled in graduate courses in which the formal academic requirements are undertaken at a part of the University away from the Kensington campus.

(5) Students who while enrolled at and attending another university (or other tertiary institution as approved by the Vice-Chancellor) in a degree or diploma course are given

approval to enrol at the University of New South Wales but only as miscellaneous students for subjects to be credited towards the degrees or diplomas for which they are enrolled elsewhere are exempt from all Student Activities Fees and the University Union Entrance Fee.

Institutions approved are: Australian Film and Television School, New South Wales Institute of Technology, Sydney College of Advanced Education and Sydney College of Chiropractic.

(6) Undergraduate students of a recognized university outside Australia who attend the University of New South Wales with the permission of the head of the appropriate school or department to take part as miscellaneous students in an academic program relevant to their regular studies and approved by the authorities of their own institution are exempt from all Student Activities Fees and the University Union Entrance Fee.

(7) Graduate students not in attendance at the University and who are enrolling in a project only other than for the first time, are exempt from all Student Activities Fees.

(8) Graduate students resubmitting a thesis or project only are exempt from all Student Activities Fees.

(9) All Student Activities Fees, for one or more sessions, may be waived by the Registrar for students who are given formal permission to pursue their studies at another institution for one or more sessions.

(10) Graduate students who have completed all the work for a qualification at the commencement of session, except for the submission of the relevant thesis or project report, may be exempted from the payment of Student Activities Fees by the Registrar on production of an appropriate statement signed by the relevant Supervisor or Head of School.

(11) Students enrolled in a session or sessions devoted entirely to training or experience away from the campus and its associated laboratories, hospitals, centres, institutes and field stations are exempt from all Student Activities Fees for that session or sessions.

(12) Students whose registration is cancelled or suspended by the University shall receive refunds of fees paid in accordance with the provisions of section 18. (5) below except that a refund of one half of the fees shall be made if such cancellation or suspension takes place between the end of the fourth week of Session 1 and the end of the fourth week of Session 2.

18. Variations in Enrolment (including Withdrawal)

(1) Students wishing to vary an enrolment program must make application on the *Variation of Enrolment* form available from the appropriate Course Authority and the Student Enquiry Counter.

(2) Students withdrawing from courses (and see also information about withdrawal from subjects below) are required to notify the Registrar in writing or complete the withdrawal form available from the Student Enquiry Counter. In some cases such students will be entitled to fee refunds (see (5) below).

(3) Enrolment in additional subjects

Applications for enrolment in additional subjects must be submitted by:

28 March 1986 for Session 1 only and whole year subjects;
22 August 1986 for Session 2 only subjects.

(4) Withdrawal from subjects

Applications to withdraw from subjects may be submitted throughout the year but applications lodged after the following dates will result in students being regarded as having failed the subjects concerned, except in special circumstances:

(a) for one session subjects, the end of the seventh week of that session (18 April or 19 September).

(b) for whole year subjects, the end of the second week of Session 2 (8 August).

(5) Withdrawal from Course – Refunds – Student Activities Fees

Whether or not a student's withdrawal entails academic penalties (covered in item (4) above) there are rules governing Student Activities Fees refunds in the case of complete withdrawal from a course as follows:

(a) If notice of withdrawal from a course is received before the first day of Session 1, a refund of all Student Activities Fees paid will be made.

(b) If notice of withdrawal is received on or after the first day of Session 1, a partial refund of the University Union Entrance Fee will be made on the following basis: any person who has paid the entrance fee in any year and who withdraws from membership of the University Union after the commencement of Session 1 in the same year, or who does not renew membership in the immediately succeeding year may on written application to the Warden receive a refund of half the entrance fee paid.

(c) If the notice of withdrawal is given before the end of the fourth week of Session 1 (28 March 1986) a full refund of Student Activities Fees paid will be made; if notice is given before the end of the seventh week of Session 1 (18 April 1986) a refund of three-quarters of the Student Activities Fees paid will be made; if notice is given before the beginning of Session 2 (28 July 1986) a refund of one-half of the Student Activities Fees paid will be made; if notice is given before the end of the seventh week of Session 2 (19 September 1986) a refund of one-quarter of Student Activities Fees paid will be made; thereafter no refund will be made except that provided for in (d) below.

(d) If a student's enrolment in any year is for one session only and the student gives notice of withdrawal prior to the end of the fourth week of that session (28 March or 22 August 1986) a full refund of Student Activities Fees paid will be made; if notice is given before the end of the seventh week of that session (18 April or 19 September 1986) a refund of one-half of the Student Activities Fees paid will be made; thereafter no refund will be made.

(e) The refunds mentioned in (c) and (d) above may be granted by the Registrar to a student unable to notify the Registrar in writing by the times required provided evidence is supplied that the student has ceased attendance by those times.

6) Acknowledgements

The Registrar will acknowledge each application for a variation in enrolment (including withdrawals from subjects) as follows:

- (a) variations lodged before the Friday of the seventh week of each session (18 April or 19 September) will be incorporated in the *Confirmation of Enrolment Program* notice forwarded to students on 29 April or 30 September as appropriate.
- (b) variations lodged after those dates will be acknowledged by letter.
- (c) withdrawals from a course are acknowledged individually whenever they are lodged.

(7) It is emphasized that failure to attend for any assessment procedure, or to lodge any material stipulated as part of an assessment procedure, in any subject in which a student is enrolled will be regarded as failure in that assessment procedure unless written approval to withdraw from the subject without failure has been obtained from the Registrar.

19. Exemption – Membership

The Registrar is empowered to grant exemption from membership of any or all of the University Union, the Students' Union and the Sports Association to students who have a genuine conscientious objection to such membership, subject to payment of the prescribed fees to the Miscellaneous Fund.

Leave of Absence

Leave of absence from an undergraduate course of study may be granted to students other than those in the first year of a course. Leave of absence has generally been restricted to one year but in special circumstances two years have been granted.

To apply for such leave of absence, a letter should be submitted to the Registrar immediately following the release of annual examination results and must include the student's full name, registration number, the course and stage in which enrolled in the previous year and, most important, the reason *why* leave is being sought. The letter advising the result of the application will provide details about how to re-enrol.

Higher degree and graduate diploma candidates may apply for suspension of enrolment under similar conditions.

Undergraduate Course Transfers

Students wishing to transfer from one course to another must complete and submit an application form, obtainable from the Student Enquiry Counter, the Chancellery, by Friday 10 January 1986.

Students whose applications to transfer are successful, and who are *transferring from one school to another* are required to comply with the enrolment procedure laid down for new students with advanced standing. *Students transferring from one course to another within the same school* are required to attend the appropriate enrolment session for the course to which they have approval to transfer.

Students must present the approval to transfer to the enrolling officer, and those who have not received advice regarding their application to transfer before the date on which they are required to enrol should check with the office of the Admissions Section.

Students should also advise the enrolling officer in the school in which they were enrolled in 1985 of their intention to transfer.

Admission with Advanced Standing

Any persons who make application to register as a candidate for any degree or other award granted by the University may be admitted to the course of study leading to such degree or award with such standing on the basis of previous attainments as may be determined by the Professorial Board provided that:

1. the Board shall not grant such standing under these rules as is inconsistent with the rules governing progression to such degree or award as are operative at the time the application is determined;
2. where students transfer from another university such students shall not in general be granted standing in this University which is superior to what they have in the University from which they transfer;
3. the standing granted by the Board in the case of any application based on any degree/s or other awards already held by the applicants, shall not be such as will permit them to qualify for the degree or award for which they seek to register without completing the courses of instruction and passing the examinations in at least those subjects comprising the later half of the course, save that where such a program of studies would involve them repeating courses of instruction in which the Board deems them to have already qualified, the Board may prescribe an alternative program of studies in lieu thereof;
4. the standing granted by the Board in the case of any application based on partial completion of the requirements for any degree or other award of another institution shall not be such as will permit the applicants to qualify for the degree or award for which they seek to register by satisfactory completion of a program of study deemed by the Board to be less than that required of students in full-time attendance in the final year of the course in which the applicants seek to register;
5. the standing granted by the Board in the case of any application based on the partial completion of the requirements for any degree or other award of the University may be such as to give full credit in the course to which the applicants

seek to transfer for work done in the course from which they transfer.

Where the identity between the requirements for any award of the University already held and that of any other award of the University is such that the requirements outstanding for the second award are less than half the requirements of that award, students who merely complete such outstanding requirements shall not thereby be entitled to receive the second award but shall be entitled to receive a statement over the hand of the Registrar in appropriate terms.

Resumption of Courses

Students who have had a leave of absence for twelve months and wish to resume their course should follow the instructions about re-enrolling given in the letter granting leave of absence. If these instructions are not fully understood or have been lost, students should contact the office of the Admissions Section before November in the year preceding the one in which they wish to resume their course.

If students have not obtained leave of absence from their course and have not been enrolled in the course over the past twelve months or more, they should apply for admission to the course through the Universities and Colleges Admissions Centre before 1 October in the year preceding that in which they wish to resume studies.

Examinations

Examinations are held in June/July and in November/December.

Timetables

Provisional timetables indicating the dates and times of examinations are posted on the University noticeboards in May and October. Students must advise the Examinations Section (the Chancellery) of any clash in examinations.

Final timetables indicating the dates, times, locations, and authorized materials are available for students two weeks before the end of each session.

Misreading of the timetable is not an acceptable excuse for failure to attend any examination.

Assessment of Course Progress

In the assessment of a student's progress in a course, consideration may be given to work in laboratory and class exercises and to any term or other tests given throughout the year as well as to the results of written examinations.

Examination Results

Grading of Passes

Passes are graded as follows:

<i>High Distinction</i>	an outstanding performance
<i>Distinction</i>	a superior performance
<i>Credit</i>	a good performance
<i>Pass</i>	an acceptable level of performance
<i>Satisfactory</i>	satisfactory completion of a subject for which graded passes are not available

Pass Conceded

A pass conceded may be granted provided that the overall performance is considered to warrant such a concession. A pass conceded in a subject will allow progression to another subject for which the former subject is a prerequisite.

Pass Terminating

A pass terminating may be granted provided that the overall performance is considered to warrant such a concession. A pass terminating does not allow progression to another subject for which the former subject is a prerequisite.

Availability of Results

Final examination results will be posted to a student's term address, or vacation address if requested. Forms requesting that results be posted to a vacation address and change of address forms are obtainable at the Student Enquiry Counter, the Chancellery. Forms can be accepted up to Friday 4 July for Session 1 results and Friday 5 December for Session 2 and whole year results. Results are also posted on School noticeboards and in the University Library. Results on noticeboards are listed by *Student Registration Number*.

No examination results are given by telephone.

Review of Results

A student may make application to the Registrar for the review of a result. The application form, accompanied by an appropriate fee, must be submitted not later than fifteen working days after the date of issue of the *Notification of Result of Assessment* form.

In reviewing a result, the subject authorities shall ensure that all components of the assessment have been assessed and a mark assigned.

A review of a result is not a detailed reassessment of a student's standard of knowledge and understanding of, and skills in, the subject. It is rather a search for arithmetic error in arriving at the composite mark and for gross and obvious error in assignment of marks in components of the final composite mark.

When a change in grade is recommended, the application fee will be refunded by the Registrar.

Special Consideration

Students who believe that their performance in a subject, either during session or in an examination, has been adversely affected by sickness or any other reason should inform the Registrar and ask for special consideration in the determination of their standing.

Such requests should be made as soon as practicable after the occurrence and in any event no more than seven days after the final examination in a subject.

When submitting a request for special consideration students should provide all possible supporting evidence (eg medical certificates) together with their registration number and enrolment details.

Physical Disabilities

Students suffering from a physical disability which puts them at a disadvantage in written examinations should advise the Examinations Section (Ground Floor, the Chancellery) immediately their disability is known. If necessary, special arrangements will be made to meet the student's requirements.

Students who are permanently disabled and need to make special arrangements for their examinations, should contact the Examinations Section as soon as the final timetable becomes available.

Use of Computers and Electronic Calculators

The use of computers or electronic calculators may be permitted in examinations conducted within the University. Computers and electronic calculators which are authorized by the University for this purpose **must be hand-held, internally powered, and silent**. Computers are distinguished from electronic calculators for this purpose by the existence of a full alphabetic keyboard on them. Computers are not permitted in examinations for which an electronic calculator has been specified. When an electronic calculator is permitted in an examination, any programmable memory on it must be cleared prior to entering an examination room.

The University does not provide computers or electronic calculators of the kind described in this rule for use in examinations although some schools may make them available in special circumstances.

Examinations Held Away from the Campus

Except in the case of students enrolled on external courses, examinations will not be permitted away from the campus unless the candidate is engaged on *compulsory industrial training*. Candidates must advise the Officer-in-charge, Examinations Section, immediately the details of the industrial training are known. Special forms for this purpose are available at the Student Enquiry Counter in the north wing of the Chancellery.

Arrival at Examinations

Examination Rooms will be open to students twenty-five minutes before the commencement of the examination. Candidates are requested to be in their places at least fifteen minutes before the commencement to hear announcements.

Reading the Examination Paper

The examination paper will be available for reading ten minutes before the instruction is given to commence writing.

Use of Linguistic Dictionaries

The answers in all examinations and in all work submitted must be in English unless otherwise directed. Students may apply for permission to use standard linguistic dictionaries in

the presentation of written work for assessment. Such applications should be made in writing to the Officer-in-charge, Examinations Section not later than 14 days prior to the need to use the linguistic dictionary.

Academic Misconduct

Students are reminded that the University regards academic misconduct as a very serious matter. Students found guilty of academic misconduct are usually excluded from the University for two years. Because of the circumstances in individual cases the period of exclusion can range from one session to permanent exclusion from the University.

The following are some of the actions which have resulted in students being found guilty of academic misconduct in recent years: taking unauthorized materials into an examination; submitting work for assessment knowing it to be the work of another person; improperly obtaining prior knowledge of an examination paper and using that knowledge in the examination; failing to acknowledge the source of material in an assignment.

Conduct of Examinations

Examinations are conducted in accordance with the following rules and procedure:

1. Candidates are required to obey any instruction given by an examination supervisor for the proper conduct of the examination.
2. Candidates are required to be in their places in the examination room not less than fifteen minutes before the time for commencement.
3. No bag, writing paper, blotting paper, manuscript or book, other than a specified aid, is to be brought into the examination room.
4. Candidates shall not be admitted to an examination after thirty minutes from the time of commencement of the examination.
5. Candidates shall not be permitted to leave the examination room before the expiry of thirty minutes from the time the examination commences.
6. Candidates shall not be re-admitted to the examination room after they have left it unless, during the full period of their absence, they have been under approved supervision.
7. Candidates shall not by any improper means obtain, or endeavour to obtain, assistance in their work, give, or endeavour to give, assistance to any other candidate, or commit any breach of good order.
8. All answers must be in English unless otherwise stated. Foreign students who have the written approval of the Registrar may use standard linguistic dictionaries.
9. Smoking is not permitted during the course of examinations.
10. A candidate who commits any infringement of the rules governing examinations is liable to disqualification at the particular examination, to immediate expulsion from the examination room and to such further penalty as may be determined in accordance with the By-laws.

Writing in Examinations

Candidates are permitted to take pens, pencils and erasers into the examination room but are advised that all answers must be written in ink. Except where expressly required, pencils may be used only for drawing, sketching or graphical work.

Acknowledgement of Sources

Students are expected to acknowledge the source of ideas and expressions used in submitted work. To provide adequate documentation is not only an indication of academic honesty but also a courtesy enabling the marker to consult sources with ease. Failure to do so may constitute plagiarism, which is subject to a charge of academic misconduct.

Further Assessment

In special circumstances further assessment including assessment or further assessment on medical or compassionate grounds may be granted.

Further assessment may be given by the subject authority at his or her discretion at any time prior to the meeting of the relevant faculty assessment committee (normally the fourth week of the Midyear Recess and the second week of December). Further assessment may also be awarded at the faculty assessment committee and students affected may need to be free to undertake that further assessment in the last week in the Midyear Recess and in the period up to the end of the second week in January; students should consult their subject authority for details of further assessment immediately their results are known.

Restrictions upon Student Re-enrolling

The University Council has adopted the following rules governing re-enrolment with the object of requiring students with a record of failure to show cause why they should be allowed to re-enrol and retain valuable class places.

First Year Rule

1. Students enrolled in the first year of any undergraduate course of study in the University shall be required to show cause why they should be allowed to continue the course if they do not pass the minimum number of subjects, units or credits prescribed for this purpose by the relevant faculty or board of studies.

The prescribed minimum for each undergraduate course may be found in **Schedule A** below; the schedule may be varied from time to time by the Professorial Board.

Repeated Failure Rule

2. Students shall be required to show cause why they should be allowed to repeat a subject which they have failed more than once. Where the subject is prescribed as part of the course they shall also be required to show cause why they should be allowed to continue that course.

General Rule

3. (1) Students shall be required to show cause why they should be allowed to repeat a subject they have failed if the assessment committee of the faculty or board of studies so decides on the basis of previous failures in that subject or in a related subject. Where the subject is prescribed as part of the course they shall also be required to show cause why they should be allowed to continue that course.

(2) Students shall be required to show cause why they should be allowed to continue their course if the assessment committee of the faculty or board of studies so decides on the basis of their academic record.

The Session-Unit System

4. (1) Students who infringe the provisions of Rules 1. or 2. at the end of Session 1 of any year will be allowed to repeat the subject(s) (if offered) and/or continue the course in Session 2 of that year, subject to the rules of progression in the course.

(2) Such students will be required to show cause at the end of the year, except that students who infringe Rule 2. at the end of Session 1, and repeat the subjects in question in Session 2, and pass them, will not be required to show cause on account of any such subjects.

Exemption from Rules by Faculties

5. (1) A faculty or board of studies assessment committee may, in special circumstances, exempt students from some or all of the provisions of Rules 1. and 2.

(2) Such students will not be required to show cause under such provisions and will be notified accordingly by the Registrar.

Showing Cause

6. (1) Students wishing to show cause must apply for special permission to re-enrol. Application should be made on the form available from the Registrar and must be lodged with the Registrar by the dates published annually by the Registrar. A late application may be accepted at the discretion of the University.

(2) Each application shall be considered by the Admissions and Re-enrolment Committee of the relevant faculty or board of studies which shall determine whether the cause shown is adequate to justify the granting of permission to re-enrol.

Appeal

7. (1) Students who are excluded by the Admissions and Re-enrolment Committee from a course and/or subject under the provisions of the Rules will have their applications to re-enrol reconsidered automatically by the Re-enrolment Committee of the Professorial Board.

(2) Students whose exclusion is upheld by the Re-enrolment Committee may appeal to an Appeal Committee constituted by Council for this purpose with the following membership:

A Pro-Vice-Chancellor, nominated by the Vice-Chancellor who shall be Chairman.

The Chairman of the Professorial Board, or if its Chairman is unable to serve, a member of the Professorial Board, nominated by the Chairman of the Professorial Board, or when the

Chairman of the Professorial Board is unable to make a nomination, nominated by the Vice-Chairman.

One of the category of members of the Council elected by the graduates of the University, nominated by the Vice-Chancellor.

The decision of the Committee shall be final.

(3) The notification to students of a decision which has been upheld by the Re-enrolment Committee of the Professorial Board to exclude them from re-enrolling in a course and/or subject shall indicate that they may appeal against that decision to the Appeal Committee. The appeal must be lodged with the Registrar within fourteen days of the date of notification of exclusion; in special circumstances a late appeal may be accepted at the discretion of the chairman of the Appeal Committee. In lodging such an appeal with the Registrar students should provide a complete statement of all grounds on which the appeal is based.

(4) The Appeal Committee shall determine appeals after consideration of each appellant's academic record, application for special permission to re-enrol, and stated grounds of appeal. In particular circumstances, the Appeal Committee may require students to appear in person.

Exclusion

8. (1) Students who are required to show cause under the provisions of Rules 1, or 3, and either do not attempt to show cause or do not receive special permission to re-enrol from the Admissions and Re-enrolment Committee (or the Re-enrolment Committee on appeal) shall be excluded, for a period not in excess of two years, from re-enrolling in the subjects and courses on account of which they were required to show cause. Where the subjects failed are prescribed as part of any other course (or courses) they shall not be allowed to enrol in any such course.

(2) Students required to show cause under the provisions of Rule 2, who either do not attempt to show cause or do not receive special permission to re-enrol from the Admissions and Re-enrolment Committee (or the Re-enrolment Committee on appeal) shall be excluded, for a period not in excess of two years, from re-enrolling in any subject they have failed twice. Where the subjects failed are prescribed as part of a course they shall also be excluded from that course. Where the subjects failed are prescribed as part of any other course (or courses) they shall not be allowed to enrol in any such course.

Re-admission after Exclusion

9. (1) Excluded students may apply for re-admission after the period of exclusion has expired.

(2) (a) Applications for re-admission to a course should be made to the Universities and Colleges Admissions Centre before the closing date for normal applications in the year prior to that in which re-admission is sought. Such applications will be considered by the Admissions and Re-enrolment Committee of the relevant faculty or board of studies.

(b) Applications for re-admission to a subject should be made to the Registrar before 30 November in the year prior to that in which re-admission is sought. Such applications will be considered by the relevant subject authority.

(3) Applications should include evidence that the circumstances which were deemed to operate against satisfactory performance at the time of exclusion are no longer operative or are reduced in intensity and/or evidence of action taken (including enrolment in course/s) to improve capacity to resume studies.

(4) Students whose applications for re-admission to a course or subject are unsuccessful (see 9. (2) (a), (b) respectively) will be invited to appeal to the Re-enrolment Committee of the Professorial Board. The decision of the Re-enrolment Committee will be final.

10. Students who fail a subject at the examinations in any year or session and re-enrol in the same course in the following year or session must include in their programs of studies for that year or session the subject which they failed. This requirement will not be applicable if the subject is not offered the following year or session, is not a compulsory component of a particular course, or if there is some other cause which is acceptable to the Professorial Board, for not immediately repeating the failed subject.

Restrictions and Definitions

11. (1) These rules do not apply to students enrolled in programs leading to a higher degree or graduate diploma.

(2) A subject is defined as a unit of instruction identified by a distinctive subject number.

Schedule A

(See First Year Rule 1. above)

Where the minimum requirement is half the program, this is defined as half the sum of the unit values of all the subjects in a student's program.

Faculty/Board of Studies	Minimum Requirement	Course	Unit Values (UV)
Applied Science	Half the program	3000-3220	One-session subjects: UV 1 Two-session subjects: UV 2
Architecture	Half the program	3270, 3275, 3330	Elective subjects: UV 0 All other subjects: appropriate UV corresponding to credit points*
		3320	All subjects: UV equal to the allocated hours*
		3360, 3380	Elective subjects: UV 0 All other subjects: UV equal to the allocated hours*
Arts	18 Level I credit points	3400-3420	

*For details see the appropriate Faculty Handbook.

Faculty/Board of Studies	Minimum Requirement	Course	Unit Values (UV)
Biological Sciences	4 units	3430	Science subjects: appropriate UV* Arts subjects: 6 credit points = UV 1 12 credit points = UV 2
Commerce	Three subjects	3490-3595 FT in both sessions	
	Two subjects	3490-3595 PT in either session	
Engineering	Half the program including Physics I or Mathematics I	3610-3612, 3660-3662, 3680-3682, 3700-3702	5 061: UV 0 One-session subjects: UV 1 Two-session subjects: UV 2
	Half the program including Statics or Mathematics I	3620, 3730	All subjects: UV equal to the allocated hours*
	Half the program including Physics I or Mathematics I	3640, 3720-3725	One-session subjects: UV 1 Two-session subjects: UV 2
	Half the program	3740, 3760	One-session subjects: UV 1 Two-session subjects: UV 2
Law	Half the program	4710-4790	One-session subjects: UV 1 90.741: UV 0 All other two-session subjects: UV 2
Medicine	Half the program	3800	80.010: UV 3 81.001: UV 3 81.002: UV 6 70.001: UV 4 One General Studies elective: UV 1
Professional Studies	Half the program	4030, 4040	All subjects: UV 1
		4070-4080	All subjects: appropriate UV* One General Studies elective: UV 1
Science	Half the program	3910, 3950	All subjects: appropriate UV* One General Studies elective: UV 1
Science and Mathematics	2 units	3970	All subjects: appropriate UV*

*For details see the appropriate Faculty Handbook.

Faculty/Board of Studies	Minimum Requirement	Course	Unit Values (UV)
University College (Australian Defence Force Academy)	Half the program	BA, BSc	One General Studies elective: UV 1 All subjects: UV 1
		BE	All subjects: appropriate weighted mark*

Admission to Degree or Diploma

Students whose current program will enable them to complete all requirements for the degree or diploma, including industrial training where necessary, should lodge with the Registrar the form *Application for Admission to Degree/Diploma* and return it to the Registrar by the second Monday in May for the October ceremonies, and the second Friday in October for all other ceremonies. The forms are available from the Student Enquiry Counter in the north wing of the Chancellery.

Students who have indicated on their enrolment form that they are potential graduands are forwarded an application form with their *Confirmation of Enrolment Program* notice in September (or, in the case of students who expect to satisfy requirements at the end of Session 1, with the form issued in April). Students who do not complete an application form will not graduate; students who do not return their application form by the due date will graduate at a later series of ceremonies.

Students enrolled in courses 3400, 3910 and 3970 who have completed an application form to graduate at the pass level and who then decide to proceed to an honours year should advise the Registrar, in writing before 1 September for those completing requirements at the end of Session 1, or before 28 February for those completing requirements at the end of Session 2.

A list of graduands in Medicine who have applied for their degree is published in *The Sydney Morning Herald* in January.

A list of graduands other than Medicine who have applied for their degree/diploma and who expect to graduate in October is published in *The Sydney Morning Herald* on the first Wednesday in September.

A list of graduands other than Medicine who have applied for their degree/diploma and who expect to graduate in April/May the following year is published in *The Sydney Morning Herald* on the first Wednesday in March.

Students who are potential graduands and who wish to notify the Registrar of a change of address should submit an additional form *Final Year Students' Graduation: Change of Address*.

Attendance at Classes

Students are expected to be regular and punctual in attendance at all classes in the subjects in which they are enrolled. All applications for exemption from attendance at classes of any kind must be made in writing to the Registrar.

In the case of illness or of absence for some other unavoidable cause students may be excused by the Registrar for non-attendance at classes for a period of not more than one month or, on the recommendation of the Dean of the appropriate faculty, for a longer period.

Absence from Classes

Explanations of absences from classes, or requests for permission to be absent from forthcoming classes, should be addressed to the Registrar and, where applicable, should be accompanied by a medical certificate. If examinations or other forms of assessment have been missed, this should be stated in the application.

If students attend less than eighty per cent of their possible classes they may be refused final assessment.

Student Records

Confirmation of Enrolment Program notices are sent to all students on 28 April and 29 September. It is not necessary to return these forms unless any of the information recorded is incorrect. If amendments need to be made, students should contact the appropriate course office.

Release of Information to Third Parties

The University treats results of assessment and information it receives from a student as confidential and will not reveal such information to third parties without the permission of the student except at the discretion of senior officers in circumstances considered of benefit to the student and when it is either impossible or impracticable to gain the student's prior permission. This happens rarely. This policy is considered so important that it often involves officers of the University in very difficult situations, for example, when they must refuse to reveal the address of a student to parents or other relatives.

In spite of the policy, all students should be aware that students' addresses are eagerly sought by various commercial agents and that subterfuges of various kinds can be used to obtain them. From time to time, for example, people claiming to be from the University telephone students or their families and ask for information (usually another student's address) which is often given, unsuspectingly. There is evidence that this is a technique used by some commercial agents.

It would be generally helpful if students (and their families and friends) are cautious in revealing information, making it a practice to ask the name, position, and telephone extension of any caller claiming to be from the University and, if suspicious, returning the call to the extension given.

Change of Address

The Student Records and Scholarships Office of the Department of the Registrar should be notified as soon as possible of any change of address. Failure to do this could lead to important correspondence (including results of assessment) going astray. The University cannot accept responsibility if official communications fail to reach students who have not given notice of their change of address. *Change of Address Advice* forms are available at Faculty and School offices and from the Student Enquiry Counter in the north wing of the Chancellery.

All communications from the University will be sent to the Session or Term address except when arrangements are made otherwise in the case of results of assessment (see **Examinations: Availability of Results**, earlier in this section). *Change of Address Advice* forms will be accepted up to Friday 5 December, except for final-year students wishing to change their *Application for Admission for Degree/Diploma* form. Changes to this form will be accepted up to a date four weeks before the student's graduation ceremony.

Ownership of Students' Work

The University reserves the right to retain at its own discretion the original or one copy of any drawings, models, designs, plans and specifications, essays, theses or other work executed by students as part of their courses, or submitted for any award or competition conducted by the University.

Notices

Official University notices are displayed on the noticeboards and students are expected to be acquainted with the notices which concern them. These boards are in the Biological Sciences Building, the Mathews Building, the Chancellery (lower ground floor), Central Lecture Block, Dalton Building (Chemistry), Main Building (Physics and Mining) and in the Western Grounds Area.

Parking within the University Grounds

A limited amount of parking is available on campus. Copies of the University's parking rules may be obtained on application to Room 240, the Chancellery.

Academic Dress

Information about the University's academic dress requirements may be obtained from the Ceremonials Section, Room LG2, the Chancellery (phone extension 3112).

Further Information

Lost Property

All enquiries concerning lost property should be made to the Superintendent (Patrol and Cleaning Services) on extension 3460 or to the Lost Property Office at the Union.

The Calendar

Please consult the Calendar for a more detailed account of the information contained in this section.

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. In these days of student quotas competition for entry is intense and you have all demonstrated considerable academic achievement. You are 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 26 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.

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

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

This Handbook is available to all students in the medicine course and the combined Science and Medicine course at the time of enrolment and it is important that you read the contents of

this and succeeding editions and to retain it for reference. Information about course content, assessment procedures and rules of progression for each year of the course are published in the Handbook and will not be made available to students in any other form. You are advised also to consult frequently the noticeboards in the various Schools and in the Foyer of the Wallace Wurth Building, 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 contact the Faculty Administration Office and other members of the Faculty for assistance.

W. E. Glover
Dean
Faculty of Medicine

Faculty of Medicine**Calendar of Dates**

Session 1	3 March to 11 May
May Recess	12 May to 18 May 19 May to 15 June
Midyear Recess	23 June to 7 July
Session 2	28 July to 24 August
August Recess	25 August to 31 August 1 September to 9 November

1986**First and Second
Year**

Annual examinations: 17 November to 5 December 1986

Term 1 (10 weeks)	20 January to 30 March
Term 2 (9 weeks)	7 April to 11 May
May Recess	12 May to 18 May 19 May to 15 June
Term 3 (9 weeks)	23 June to 24 August
August Recess	25 August to 31 August
Term 4 (10 weeks)	1 September to 9 November
Term 1 (8 weeks)	20 January to 16 March
Term 2 (8 weeks)	24 March to 18 May
Term 3 (8 weeks)	26 May to 20 July
Term 4 (8 weeks)	28 July to 21 September
Term 5 (8 weeks)	29 September to 23 November

**Third and Fourth
Year****Fifth Year**

1987

**First and Second
Year**

Session 1	2 March to 10 May
May Recess	11 May to 17 May 18 May to 14 June
Midyear Recess	22 June to 26 July
Session 2	27 July to 23 August
August Recess	24 August to 30 August 31 August to 8 November
Annual examinations: 16 November to 14 December 1985	

**Third and Fourth
Year**

Term 1 (10 weeks)	19 January to 29 March
Term 2 (9 weeks)	6 April to 10 May
May Recess	11 May to 17 May 18 May to 14 June
Term 3 (9 weeks)	22 June to 23 August
August Recess	24 August to 30 August
Term 4 (10 weeks)	31 August to 8 November

Fifth Year

Term 1 (8 weeks)	19 January to 15 March
Term 2 (8 weeks)	23 March to 17 May
Term 3 (8 weeks)	25 May to 19 July
Term 4 (8 weeks)	27 July to 20 September
Term 5 (8 weeks)	28 September to 22 November

Faculty Information

Some People Who Can Help You

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

The Administrative Assistant, Faculty of Medicine. Telephone 697 2457.

Moya Pedemont, Administrative Assistant, Faculty of Medicine. Telephone 697 2454.

Ian Maclean, Administrative Officer, Faculty of Medicine. Telephone 697 2452.

Don Swinbourne, Executive Officer, Faculty of Medicine. Telephone 697 2450.

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.

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 in response to demands for change in medical education which took into account the greater maturity and academic skills of students coming from secondary education.

The Faculty of Medicine consists of all members of the academic staff together with nominees from professional organizations, teaching hospitals and the student body. The Chairman 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 (see 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, Medicine, Obstetrics and Gynaecology, Paediatrics, Pathology, Physiology and Pharmacology, Psychiatry and Surgery. The Faculty is supported in its operations by the Centres for Continuing Medical Education, Cardiovascular Research, and Immunology, as well as an Animal Breeding and Holding Unit, a Mass Spectrometry Unit, an Electron Microscope Unit and a Medical Illustration Unit.

Committee Structure

Faculty of Medicine

Executive Committee of Faculty

Admissions and Re-enrolment Committee
Assessment Committees
Biomedical Library Advisory Committee
BMedSc Course Committee
Centre for Cardiovascular Research Advisory Committee
Centre for Continuing Medical Education Advisory Committee
Centre for Immunology Advisory Committee
Combined BSc/MB BS Course Committee
Curriculum Committee — Year (sub) Committees
Higher Degree Committee

Advisory Committees to the Dean:

Animal Facilities Advisory Committee
Clinical Supervisors Committee
Dean's Advisory Committee (Heads of Schools/
Departments)
Faculty Resources Allocation Committee
Hospital Boards of Medical Studies

Costs In Addition to Fees

Details of fees have been provided in the **General Information** section of this handbook but in **Medicine** there are additional costs.

As students may not be aware when embarking on their degrees 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 fluctuation and to some individual variation.

	<i>\$ approx.</i>
Textbooks	1200
Half-skeleton.....	70
Two coats (1 laboratory, 1 hospital).....	60
Miscellaneous (papers, pens, kits, diagnostic equipment, laboratory manuals and aids, etc).....	300
Hospital Residency Charges.....	100
Special travel.....	100
	<hr/> \$1830

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

The disarticulated half-skeleton may be purchased through the School of Anatomy or by arrangement with students in higher years.

Attendance at and Residence in Hospitals

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

There are sections 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.

The Teaching Hospitals

Location

The Prince Henry/Prince of Wales Hospitals

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

Prince of Wales Hospital, High Street, Randwick 2031
Telephone 339 0111

The Prince Henry and Prince of Wales Hospitals are Principal Teaching Hospitals of the University of New South Wales. They combine to form a single unit providing a total of 1280 beds.

All departments of medicine and surgery are represented in the Prince Henry/Prince of Wales group including the various specialties, as well as community health, paediatrics and psychiatry. The specialist medical staff numbers over 420 and resident medical staff 320.

The first building on the present Prince of Wales site at Randwick was an asylum for destitute children housed in the Edmund Blacket Building which is classified by the National Trust. The first hospital, the Catherine Hayes Hospital, was opened in 1870. By 1915 the Defence Department had begun to develop it into a general military hospital. It is thought that the hospital was given its present name in 1923. It was used alternatively as a military hospital (during the wars) and a repatriation hospital until 1953 when it was handed over to the Hospitals Commission of N.S.W. for use as a convalescent and orthopaedic annex for the Sydney Hospital. In 1961 the Prince of Wales Hospital was gazetted as a public hospital independent of the Sydney Hospital, and in 1962 was joined with the Prince Henry Hospital.

The Coast Hospital was established in 1881 at Little Bay as an infectious diseases hospital. Not until 1934 was it re-named the Prince Henry Hospital. At this time an extensive building program was begun.

In 1959 the facilities of the Prince Henry Hospital were made available to the University for medical undergraduate teaching. The hospitals provide a wide range of facilities only a short distance from the University. A library is also available at each hospital. There is limited student accommodation available at the hospitals.

The St. George Hospital

Belgrave Street, Kogarah 2217
Telephone 588 1111

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

The total number of beds is 573, which includes general medical and surgical accommodation, together with departments of orthopaedics, obstetrics and gynaecology, paediatrics, psychiatry, rehabilitation and geriatrics, plus a home for developmentally disabled children.

Visiting and staff specialists number 143 and resident medical staff 94. The Clinical School includes teaching facilities, audio-visual equipment and library. Accommodation is available for students.

The St. Vincent's Hospital

Victoria Street, Darlinghurst 2010
Telephone 339 1111

The St. Vincent's Hospital has been run by the Sisters of Charity since it was founded in 1857. It moved to its present site in 1870.

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

The St. Vincent's Hospital is a general medical and surgical hospital of 590 beds with specialist units in all branches of medicine including psychiatry. Research is undertaken in the Garvan Institute of Clinical Research, Professorial Departments, and the Department of Clinical Pharmacology. The visiting medical staff numbers 133, the salaried 52, and resident medical officers 152.

The Royal Hospital for Women

Oxford Street, Paddington 2021
Telephone 339 4111

The Royal Hospital for Women is the University's Teaching Hospital in obstetrics and gynaecology. It is a specialist hospital for obstetrics and gynaecology and includes a department of neonatal paediatrics. The visiting medical staff numbers 102, and the salaried and resident medical staff 20.

The Hospital of 187 available beds functions under the auspices of the Benevolent Society of NSW, which established Australia's first lying-in hospital in 1820. The first medical undergraduate students came to this hospital in 1866 and the present site was occupied in 1901.

The first baby clinic, the forerunner of today's Baby Health Centres, was established in 1906. The State's first Antenatal Clinic was started in 1912 and this was the third such clinic in the world. In 1931 the first Achheim Zondeck Pregnancy Test was performed in Australia at the Royal Hospital for Women, and Australia's first Cancer Detection Clinic was established in 1948.

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

The Bankstown Hospital

Eldridge Road, Bankstown 2200
Telephone 70 0444

The Bankstown Hospital is a general, maternity and psychiatric hospital, and is an Associated Teaching Hospital of the University. The hospital is situated in the City of Bankstown, in the Western Suburbs 22km from the centre of Sydney. The Hospital was officially opened in 1957; since then, a constant

program of growth and updating has kept the buildings modern. The latest addition is an intensive and coronary care unit, opened by the premier in August 1980. The Hospital provides basic medical care of a high standard, primarily to the City of Bankstown which is a thriving community of about 170,000 persons.

The Hospital has a total of 349 beds, which includes a 9-bed intensive care unit, 6-bed coronary care unit, 57-bed obstetrics unit, 26-bed paediatric unit with a neonatal paediatric intensive care nursery, and a modern 40-bed psychiatric unit. It employs 105 salaried and visiting medical staff and 37 resident medical staff.

The Hospital provides patient care in the areas of medicine, surgery, obstetrics and gynaecology, psychiatry, and paediatrics. It has one of the busiest casualty units in Sydney.

The Hospital is intimately involved in the development and coordination of community health services in the City of Bankstown. A "Day Hospital" has commenced operation in the Hospital as part of a hospital-based community health program.

The Canterbury Hospital

Canterbury Road, Campsie 2194
Telephone 789 9111

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 210 approved beds and has a very busy accident and emergency department with over 35,000 attendances every year.

The Hospital is now part of the Canterbury 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 60, affiliates in obstetrics 25, salaried 5 and resident medical staff 26.

Lewisham Hospital

West Street, Lewisham 2049
Telephone 560 8666

Lewisham Hospital is a general medical and surgical hospital of 175 beds and is owned and managed by the Sisters of the Little Company of Mary, perhaps better known as the Blue Sisters. It has large departments of medicine, surgery and orthopaedics; there is no obstetrics or paediatrics. The Sisters have also provided at Lewisham the only Institute of Sports Medicine in Australia.

Visiting medical staff numbers 49, salaried 2 and resident medical staff 16.

The Hospital was founded in 1887 by a group of Sisters some eighteen months after their arrival from Nottingham, England.

It was the fifth major general hospital to be built in this city and consequently has served the people of Sydney and this state for a long time.

Lewisham Hospital became an Associated Teaching Hospital of the University in 1964.

The Royal South Sydney Hospital

Joynton Avenue, Zetland 2017
Telephone 663 0701

The Royal South Sydney Hospital is an Associated Teaching Hospital of the University with 124 beds. It provides beds for general medicine and surgery and has developed a new role as a major rehabilitation centre.

The Hospital is situated in a heavily industrialized area, serving a resident population of 77,000 and a daily influx of 75,000 workers. Management of casualties suffering from industrial injuries is one of the main features of the workload of the Casualty Department. It has recently accepted the role of establishing a Regional Rehabilitation Service for the Southern Metropolitan Region of the Department of Health and a super Regional Specialized Rehabilitation Service including rehabilitation engineering, to the State of New South Wales.

The honorary and visiting medical staff numbers 31, salaried specialists 3, and resident medical staff 10.

The Sutherland Hospital (Caringbah)

The Kingsway, Caringbah 2229
Telephone 526 0311

The Sutherland Hospital (Caringbah) is an Associated Teaching Hospital of the University. It is a general medical, surgical and obstetric hospital. There is also a gazetted psychiatric unit and a 22 bed paediatric ward.

The Hospital has 390 beds. There is a well equipped library.

The Hospital is staffed by 74 visiting medical staff, 10 staff specialists and 40 resident medical staff.

The Rozelle Hospital

Balmain Road, Rozelle 2039
Telephone 810 0601

In 1976 Callan Park Hospital and the adjoining Broughton Hall Psychiatric Centre were amalgamated and the complex renamed 'The Rozelle Hospital'. It is an establishment of the Department of Health NSW.

While Rozelle Hospital is not an Associated Teaching Hospital of the University, its special facilities are used by both New South Wales and Sydney universities and include the following services: three admission wards of about 30 beds each; a psychogeriatric admission service and outreach program; a small mental retardation unit; a large repatriation service

and an active rehabilitation service covering 4 wards and a total of some 100 patients.

The Hospital has 600 beds. The establishment has 34 full time medical staff plus sessional visiting staff.

The Biomedical Library

The Biomedical Library provides library services for staff and students from the Faculties of Medicine and Biological Sciences and from the Schools of Food Science and Technology, Health Administration, and Wool and Pastoral Sciences. It maintains close liaison with libraries of teaching hospitals of the University.

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

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

Computerized literature searches and interlibrary loans are also available.

Acting Biomedical Librarian

Betty McEwin

The *Medsoc Shop* is a major facility provided by the Society. Textbooks, white coats and diagnostic instruments may be bought cheaply. A \$5 Medsoc shop joining fee is payable. The shop is situated in Hut A at the Prince of Wales Hospital (telephone 399 2121). A monthly newsletter and an annual magazine 'PR' are produced to which students and staff are encouraged to submit written articles.

The Society has student representatives who attend the meetings of the Australian Medical Association, the Royal Australian College of General Practitioners, the Australasian Medical Students' Association, the Australian and New Zealand Association for Medical Education, the Students' Union, the University Union and the Faculty of Medicine.

All enquiries about the Society should be addressed to the Secretary of the Medical Society, c/- Medsoc Bookshop, Hut A, Prince of Wales Hospital, High Street, Randwick 2031.

The University of New South Wales Medical Society

The aim of the Medical Society is to be the representative body of the medical students of the University. Its primary function is to provide amenities and social stimulation and so contribute to giving the student a sense of belonging to the faculty. It also has the function of initiating and maintaining communication between medical students and medical educators and administrators both within the University and outside. Membership is free and automatic to all medical students.

The official committee representing the society comprises the president, clinical vice-president, pre-clinical vice-president, secretary, treasurer, shop directors and year representatives. This committee is re-elected annually.

Among the social functions held annually are various wine-and-cheese nights, the year dinners, the 'Med Ball' and the Foundation Day sports day.

Undergraduate Study

3800 Medicine Course (MB BS)

The Medicine Course extends over five years of full-time study leading to the award of the degrees of Bachelor of Medicine (MB) and Bachelor of Surgery (BS) which were recognized in 1975 by the General Medical Council of the UK. These degrees may be awarded in the following grades: Honours Class I; Honours Class II, Division I; Honours Class II, Division II; or Pass level.

The award of honours is determined on the basis of a student's performance throughout the course, using the weighted average mark for each year which is obtained by weighting the subjects according to hours of teaching.

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.

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

Selection into the Medicine Course

1. University Matriculation and Admission Requirements

Full details of the matriculation and admission requirements for entry into the University are listed in the University Calendar or may be obtained from the Registrar.

2. Competition for Entry

Entry into the Medicine Course is extremely competitive as there are far fewer places available than applicants. All applications are therefore considered and assessed on academic merit. Those ranking highest are offered the places in the course. Entry is based upon the aggregate achieved in the New South Wales Higher School Certificate examination or on tertiary education results (also see below). There is no special provision for Mature Age Entry to the course.

3. Quota for Entry — Higher School Certificate Entry

The first year entry quota is currently limited to 200 students. This number includes students entering on the basis of Higher School Certificate results, students repeating first year after failing at the first attempt and a small number of places for

applicants who have undertaken tertiary study (see paragraph 4 for details). Applicants admitted on the basis of Higher School Certificate results generally rank within the top three to four per cent of those who sat for the examination.

4. Applicants Who Have Undertaken Part or All of a Tertiary Course

Applicants are assessed on the basis of performance in the matriculation examination read in conjunction with results obtained in a tertiary course or part thereof. Emphasis is placed upon the tertiary results. Offers are made in order of merit and the competition demands an outstanding level of academic achievement. The integrated nature of the five year course is such that it would be exceptional for admission to be granted to other than first year. (Overseas students should read paragraph 8.)

5. Admission Penalty on Applicants Repeating Matriculation Examinations

A penalty of five per cent on the most recently obtained matriculation aggregate will be imposed on an applicant taking a matriculation examination for the third or subsequent time, or an applicant seeking entry on a matriculation result obtained after having been admitted to a tertiary institution (unless such studies were terminated prior to any results being recorded).

6. Interstate Applicants

Students from other states of Australia may be admitted in competition with local residents. The Faculty requires evidence that the student had obtained entry to a medical course in the state in which matriculation was gained. In addition, the applicant must have an acceptable reason, such as family reunion, to justify entry to the University of New South Wales.

7. Australian Capital Territory Admission — School Leavers

School leavers from the Australian Capital Territory compete with those from New South Wales. The Tertiary Entry Score is equated with the New South Wales Higher School Certificate results to establish a ranking for selection into the Medicine Course quota.

8. Overseas Students

Within the overall Faculty quota for entry, current regulations set a limit of twenty overseas students to be admitted each year. An overseas student is defined as "a student who holds a temporary entry visa issued by the Australian Government for the purpose of engaging in studies or training in Australia".

Applications from students with qualifications obtained overseas will be considered only when accompanied by evidence of:

(a) admission to a medical course at a university in the country where the matriculation or tertiary qualification was gained, and

(b) acceptance by the Australian Immigration Authorities.

Applications from overseas students are measured strictly in comparison with those from New South Wales and are considered within the quota for overseas students.

9. Prerequisite Requirement

Before students may enrol in 81.002 Chemistry and Biochemistry for Medical Students in Year 1 of the Medicine Course, they are required to meet a chemistry prerequisite. New South Wales Higher School Certificate students would need to be placed within the percentile range 31-100 in either 2 unit Science (Chemistry) or 4 unit Science (Multistrand). Students admitted under other paragraphs are required to have attained a similar level of knowledge in chemistry. Students who have attained the selection aggregate for the Medicine Course without the necessary chemistry prerequisite, are permitted to defer the offer of a place in Medicine for one year. Such students may enrol in the following year if they can then meet the prerequisite.

For entry to the Medicine Course in 1987 and subsequent years, students will be required to meet prerequisites in English and Mathematics as well as Chemistry. For further information, contact the Registrar or the Faculty Office.

10. Assumed Knowledge

Although chemistry constitutes the only formal prerequisite for entry in 1986 (see paragraph 9), it is recommended that students acquire a background in mathematics and physics. The physics taught in the early years of the Medicine Course expands and extends the Higher School Certificate curriculum.

Applicants should also give attention to English as medical students are required to demonstrate communication skills at all stages of the course, and especially in the clinical years.

11. Admission of Aboriginal Applicants

The University may admit suitably qualified persons of Aboriginal descent outside of any quota restrictions. Upon receipt of an application under this provision, the University will assess the applicant's potential to cope with university studies and will make Student Counsellors available to discuss the choice of course and subsequent career opportunities. Enquiries relating to this scheme should be directed to the Registrar, the Chancellor, the University of New South Wales.

12. Application Procedures

All applications should be directed to the Universities and Colleges Admissions Centre, First Floor, 645 Harris Street, Ultimo (GPO Box 7049, Sydney 2001, telephone 2125399). The Centre processes applications and sends out notification of selection or otherwise. Intending applicants should obtain the Centre's booklet entitled *Students' Information Guide* which is produced each year. The closing date for applications is generally 1st October each year, with late applications accepted until mid December (late fee of \$A40 payable).

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 the November/December assessments and the meeting of the Assessment Committee, require students to present themselves for further 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. Students are warned that they may be required to undertake such additional assessment and should take this into account when making travel arrangements for the elective term.
- Further assessment may be given to allow the Assessment Committee to resolve a doubt. (In Years 1 to 3 such assessment is usually undertaken in the second week of the following January.)
- 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.
- Further assessment will not be granted when the composite mark accurately reflects failure to achieve the required standard of knowledge and understanding of, and skills in the subject.

Course Details

Year 1

This year is conducted in two academic sessions and consists of four subjects plus two General Studies electives, as shown in the table below. The table also indicates the subject weights for these subjects (see Rules of Progression).

		Hours per week	Subject weight
		S1	S2
70.001	Anatomy 1	5	7 (4)
80.010	Introductory Clinical and Behavioural Studies	3	5 (3)
81.001	Medical Biophysics	5	3 (3)
81.002	Chemistry and Biochemistry for Medical Students*	8	8 (6)
	General Studies electives	4	4 (2)
		25	27

*Prerequisite for 1986: 2 unit Science (Chemistry) or 4 unit Science (multistrand) in the percentile range 31-100

Assessment

Each subject extends over both sessions and incorporates 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 of the Faculty of Medicine and the Head of the appropriate School before proceeding. Such students may discontinue without failure at that time, but are required to recompute for entry in the following year.

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 regarding possible further assessment.

Rules of Progression

Students enrolled for the first time in the Medicine Course in the University shall be required to show cause why they should be allowed to continue the course if they fail more than half the program in which they are enrolled. In order that students may calculate half their program, the weighting of subjects is shown above (subject to variation by the Professional Board).

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

Students repeating the year are required to enrol in all subjects in Year 1, except that students in this category are allowed to retain credit for any General Studies subject(s) passed.

General Studies Electives

The inclusion of a General Studies component in professional courses is designed to give students the opportunity to study subjects outside their own discipline, so gaining an appreciation and knowledge of their social and political environment, the interaction between science and society (including the social context of their own professions), and the contributions of philosophy and the creative arts to society.

Further information may be obtained from the Department of General Studies or the General Studies Handbook.

Photographs, Identification Badges, Tuberculin Tests

Each student is required to be photographed during the first session. These photographs are required for school and faculty purposes and are used to produce identification badges which must be worn in the hospitals. During the year students will also be required to undergo a tuberculin test and if warranted a BCG vaccination and/or chest X-ray as a precaution for hospital attendance. Further details are issued during the year.

Allocation to Hospitals in Year 2

At the end of Year 1, students are asked to list their preferences regarding assignment to teaching hospitals. This, together with the student's term address, and academic record, is taken into account in the final allocation which is made after the Year 1 examinations. Student representatives are involved in the allocation procedure.

Year 1 Subject Descriptions

The following information is supplemented by subject authorities.

70.001 Anatomy 1

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

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

Techniques of microscopy; cell structure, cell division, morphological aspects of cell function (Phagocytosis, cell movement, secretion); histology of basic tissues (epithelia, muscle, nerve, connective tissue); gross anatomy of musculoskeletal system — topographical anatomy of upper and lower limbs, head and neck, and back; early embryology, from conception to formation of organ systems.

Assessment: There is a mid-year assessment which contributes to the final assessment for the subject but does not constitute a barrier.

80.010 Introductory Clinical and Behavioural Studies

Objectives: to enable the student to listen to and understand another person and develop interviewing skills; to gain experience in small group activities and understand the group process, especially in relation to the family and the medical team; to provide an opportunity for students to observe doctors at work in various situations and consider themselves in the practice of medicine; to provide an understanding of development from childhood through adolescence and adulthood to old age, and understand the problems of people from various age groups; to develop in the student an awareness of the different family, socio-economic and ethnic backgrounds of people in Australian society and of the relevance of these backgrounds to the physical and emotional states of their patients.

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

Assessment: Two major assignments during the year and an examination at the end of Session 2. There is no mid-year assessment.

81.001 Medical Biophysics

Objectives: to provide an understanding of the basic laws and principles of physics relevant to the practice of medicine; to provide a knowledge of the biological applications of these laws and principles which are essential for an understanding of the functions of cells, organs and organisms; to familiarize the student with the theory, application and limitations of medical instrumentation; to gain experience in laboratory skills and the use of the scientific method.

Light, optics, lenses, image formation, instruments, the microscope, the eye, lasers, the ophthalmoscope. Vapor pressure, surface tension, viscosity, wetting, hydrodynamics, fluid flow. Electricity, electrical en-

ergy, electrical instruments, capacitors, transients, oscillography. Wave motion, modern physics, em radiation, diathermy, photons, quanta, nuclear radiations, radiation biology, quantum vision. Cells and the cellular environment, surface membrane of the cell, electrical and other functions, membrane transport, molecules, macro-molecules, ionic equilibria across cell membranes. Fluid and gas flows in biological systems.

Assessment: There is a mid-year assessment in the physics component of this subject and although this will not be a barrier assessment at the time, students are required to satisfy the requirements of both the physics component and the physiology component of the subject separately. Students who do not satisfy the requirements of the mid-year assessment in the physics component may be required to undergo further assessment at the end of the year, probably after the Session 2 assessments.

81.002 Chemistry and Biochemistry for Medical Students

Objectives: to obtain sufficient understanding of chemistry to recognize the essentially molecular basis of all living systems; to acquire a knowledge of chemistry 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.

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: There is a mid-year assessment in the chemistry component of the subject. Students are expected to satisfy the requirements of both the chemistry and biochemistry components of the subject. Students who do not satisfy the requirements of the mid-year assessment in the chemistry component may be required to undergo further assessment at the end of the year, probably after the Session 2 assessments.

Year 2

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

		Hours per week	
		S1	S2
41.002	Medical Biochemistry and Genetics	4½	4½
70.002	Anatomy 2	7	7
73.002	Physiology	9	9
80.012	Clinical Studies 2	2	2
80.212	Human Behaviour 2	3	3
	General Studies elective	2	2
		27½	27½

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 Studies subjects, shall be required to repeat the year, provided there is no conflict with the rules for re-enrolment. (A subject is one carrying a distinctive subject number.)

Students repeating the year are required to enrol in all subjects in Year 2 except that students in this category are allowed to retain credit for any General Studies subject(s) passed in Year 2.

Students who have passed all subjects in Year 2 except a General Studies subject may progress to Year 3 and carry such subject or equivalent General Studies subject(s).

Year 2 Subject Descriptions

The following information is supplemented by subject authorities.

41.002 Medical Biochemistry and Genetics

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.

Systematic lectures, tutorials and audio-visual demonstrations deal with whole body metabolism, metabolism of vitamins, blood, muscle, endocrine systems, lipid metabolism, connective tissue, recombinant DNA procedures, gene probes, pedigree analysis, inborn errors of metabolism, x- and y-linked inheritance, human cytogenetics. Clinical material illustrates the principles being studied and underlines the relevance of the course to the study of medicine.

70.002 Anatomy 2

Objectives: To gain knowledge of visceral anatomy and neuroanatomy; to know the basic patterns of morphogenesis and the embryological basis of congenital disorders; to recognise the microscopic structure of human tissue as a preparation for the study of pathology.

The course completes the teaching of the anatomical basis of medical science, commenced in Year 1.

73.002 Physiology

Objectives: To acquire knowledge of the functions and control mechanisms of the major body systems in man; to understand the regulation of the adaptive responses of body functions to different forms of stress; to gain experience in the use of medical instrumentation and in the measurement of variables in mammalian biological systems; to understand those physiological processes which are of particular relevance to clinical practice and to a study of pharmacology; to gain experience in problem-solving approaches to the physiological aspects of normal and disease states; to integrate knowledge of anatomy, biochemistry and physiology to provide an understanding of human structure and function.

Systematic lectures, tutorials, practicals and demonstrations deal with excitable tissues, blood, circulation, respiration, kidney and body fluids, gastro-intestinal tract and metabolism, endocrines, reproduction and development, skin, bone, fat and connective tissues and the nervous system. Clinical material illustrates the principles being studied and underlines the relevance of the course to the study of medicine. Some drugs of importance in the various systems.

80.012 Clinical Studies 2

Objectives: to extend knowledge and understanding of normal structure and function by demonstrating the disturbances which occur in disease; to demonstrate how symptoms and signs can be interpreted as disorders of structure and function and how this knowledge aids in the process of diagnosis; to provide an introduction to clinical medicine and medical terminology.

Closely integrated with Anatomy, Physiology and Biochemistry, illustrating the application of basic medical science to the clinical situation. Students are introduced to clinical medicine in the principal teaching hospitals and learn to understand the structure and function underlying certain clinical problems. Students begin to learn how to take medical histories, perform physical examinations, detect abnormalities and communicate with patients so that they can assess patients clinically and as individuals within society.

Assessment: Instead of an examination at the end of the year, students are required to submit two assignments to their tutor, one at the end of Session 1 and one during Session 2. These are marked by the tutor, and forwarded to the chairman of the Course Committee. The final grade is determined on a pass/fail basis. Further information is provided after enrolment.

80.212 Human Behaviour 2

Objectives: to provide students with information concerning the determinants of human behaviour and demonstrate the relevance of this information in medical practice; to provide students with an understanding of the interactive nature of the genetic and environmental determinants of human behaviour; to produce a student with sufficient knowledge of research methodology to critically evaluate data.

Taught in both sessions. Instruction is given in the research techniques, theoretical concepts and basic findings of the behavioural sciences, especially as these relate to medicine. Special emphasis is placed on the development of skills for the critical evaluation of

scientific data concerning human behaviour and the oral and written expression of such evaluations.

Topics include: scientific methods in the behavioural sciences; psychological and medical models; biological substrates of behaviour (including genetics); human information processing — perception, cognition, memory and learning; relevance of these psychological functions to doctor-patient perception, compliance, pain perception and behaviour modification; sleep and altered states of consciousness; the psychology and physiology of stress; relationship of stress to physical and psychological disorders; applications in behavioural medicine. In addition to attending lectures and participating in structured tutorial sessions, students carry out experimental practical work.

General Studies Elective

One General Studies elective is timetabled for Year 2. Further information may be obtained from the Department of General Studies or the General Studies Handbook.

Year 3

Year 3 is conducted over four terms totalling thirty-eight weeks. The principal subject is Paraclinical Science, integrating general pathology, microbiology, immunology and pharmacology. The strand dealing with human behaviour leads into the Year 3 subject Community Medicine. Clinical Studies 3 continues the program commenced in Year 1 and students build upon their experience of the physical aspects of disordered function in a systematic study of the signs and symptoms of disease. In addition, studies continue to reinforce the scientific basis of medicine. By the end of Year 3, the student has spent sufficient time in the hospital environment to know how a hospital functions. He or she should be able to communicate with patients and understand their problems, take a clinical history, conduct a physical examination, and detect abnormalities.

The following table shows the subjects taken and approximate hours per subject per term.

		Hours per term			
		Term 1 (10 weeks)	Term 2 (9 weeks)	Term 3 (9 weeks)	Term 4 (10 weeks)
79.112	Community Medicine	20	18	36	—
80.013	Clinical Studies 3	68	62	63	74
80.311	Paraclinical Science	145	137	115	100
80.321	Medical Science*	8	8	8	10
	General Studies elective	2	2		

*Contact hours subject to variation.

Assessment

In addition to end of year assessments, midyear progress assessments in teaching areas of the campus-based program are conducted in the last week of Term 2.

Students are required to pass in the clinical assessments of 80.013 Clinical Studies 3 and to reach the required level in the composite weighted mark in the subjects of that year other than General Studies subjects.

Composite Mark

● The composite mark is determined on marks supplied by the examiners in assessments in 79.112 Community Medicine, 80.013 Clinical Studies 3, 80.311 Paraclinical Science and 80.321 Medical Science. The subjects are weighted, approximately according to the hours devoted to each of these four subjects.

● A mark of 50 in any subject indicates that a student has achieved the minimal acceptance level of performance in the subject.

● A student who achieves a mark of 50 or more in each of the subjects is deemed to have passed this segment of the year, and will not receive special consideration by the Assessment Committee.

● A student with a composite mark of 52 per cent of maximum or greater, but who has raw marks of less than 50 in one or more subjects is normally deemed to have passed this segment of the year, and will not receive special consideration by the committee unless a request to do so is received from any of the members. Following any such consideration, the committee will decide whether the candidate will pass or fail the year, or will be required to pass in one or more supplementary assessments.

● Special consideration is normally given to each student whose composite mark falls in the range of 48-52 per cent of maximum. The Assessment Committee will decide in each case whether the student passes or fails the year or is required to pass in one or more supplementary assessments.

● A student whose composite mark falls below 48 per cent is deemed to have failed the year, and will not receive special consideration by the committee unless requested by any of the members of the Assessment Committee.

Rules of Progression

Students enrolled in Year 3 of the Medicine Course who are deemed to have failed the year are required to repeat the year, provided such progression does not conflict with the rules for restriction upon students re-enrolling.

Students repeating the year are required to re-enrol in all subjects in Year 3 except that students in this category are allowed to retain credit for any General Studies subject(s) passed in Year 3.

Students who have passed all subjects in Year 3 except a General Studies subject(s) may progress to Year 4 and carry such General Studies subject(s).

Year 3 Subject Descriptions

The following information is supplemented by subject authorities.

79.112 Community Medicine

Objectives: to understand the factors within society that cause health problems and affect their outcome; to demonstrate the contribution of epidemiology to the study of disease; to demonstrate the assessment of a community's health needs; to demonstrate the provision of services to the community and special groups within the community, eg disabled and aged persons, migrants; to understand the ethical relationship between medicine and society; to experience the range of common clinical problems experienced in general practice; to understand the special interviewing skills and problem solving approach required in general practice.

This subject is the major formal teaching commitment in Community Medicine. Within the aims of the subject, students are encouraged to follow issues which are of greatest relevance to their own interests and development and are also encouraged to work in groups as much as possible.

Includes lectures and discussions, assignments, visits to organizations and a project in the community. Introduction to community health centres and other aspects of community care commences at this stage.

80.013 Clinical Studies 3

Objectives: to become acquainted with the principal symptoms and signs of common diseases; to be able to elicit this information from patients by history-taking and by clinical examination; to acquire a working knowledge of the pathophysiology and explanation of the clinical manifestations of common syndromes.

Representing two-fifths of the Year 3 Curriculum, Clinical Studies 3 is a major component of the course in medicine and surgery. Clinical Studies 3 forms a continuum with integrated Clinical Studies in Year 4 so that it is inappropriate to artificially separate the two courses. In Year 3, however, the emphasis is on interviewing, physical examination and interpretation of any abnormalities which are elicited. Students sitting the Clinical Studies 3 examinations are not asked questions in therapeutics. Nevertheless a general interest in therapeutics and management usually develops during Year 3, stimulated by the course in pharmacology.

Assessment: Each student's ability to take and record a patient's history and perform a physical examination is assessed during the year (details supplied on enrolment). The major clinical assessments take place in October.

80.311 Paraclinical Science

Objectives: to understand the basic mechanisms of disease; to understand the aetiology, pathogenesis and complications of disease entities commonly encountered in medical practice; to know the causative agents of common microbial diseases and how they produce their effects; to understand the epidemiology of infectious diseases; to understand the basis of prevention and treatment of microbial diseases; to appreciate the role of microbiologists and pathologists in the diagnosis and management of disease; to know the mechanism of drug action with special reference to drugs of clinical importance; to be aware of the principles of drug interaction; to integrate knowledge of pathology, microbiology and pharmacology; to understand the principles of disease prevention and management.

Includes components of microbiology, immunology, pathology and pharmacology, with integration between the various components, and relates, in turn, to concurrent clinical work in the hospital.

The component related to *microbiology* deals with the interactions between host and parasite. Basic structure, growth, physiological activity and genetic characteristics of bacteria, viruses and fungi are considered. Means by which these micro-organisms exist in association with humans and their environment, how they gain access to

tissues and produce disease, and the nature of their responses to various physical, chemical and antibiotic agents which interrupt their normal function. Role of diagnostic bacteriology in clinical work.

A background knowledge of *immunology* is also important in understanding microbial disease and in applying its basic principles to treatment and prevention of specific diseases. General discussion on immunology in which the basis of cellular and humoral reactions of animals to foreign agents is considered. Serves as an introduction to other medical problems in which immunological phenomena are of primary importance, eg, allergy, auto-immune diseases and organ transplantation, examples of which are considered in the pathology component of the course.

Pathology deals with the effects of disease on the structure and function of tissues. Examination of the causation of disease and the evolution of its distinctive lesions — ie, the content of what is often referred to as 'general pathology'. This background is necessary for the subsequent study of the distinctive lesions of the various organs that characterize specific disease — ie, 'special pathology'. Concentrates on 'general pathology' — ie, the effects of injury on cells, inflammation, healing and regeneration, immunopathology, thrombosis, embolism and infarction, abnormalities of growth, and neoplasia. Main disease processes will be illustrated by examples of appropriate diseases. Touches on forensic pathology. The content of pathology in third year prepares the way for the study in fourth year of special pathology, integrated with medicine and surgery.

The component of *pharmacology* also deals with basic principles, particular emphasis being placed on the mechanisms of drug action, with special reference to drugs of clinical importance. Principles of drug action in humans and animals. Where possible, the program in basic pharmacology is integrated with the hospital program during which some important drug effects in humans will be demonstrated.

The program in Paraclinical Science extends over all four terms, microbiology, immunology and pathology being presented by lectures, tutorials, demonstrations, laboratory classes and assignments. The program in basic pharmacology occupies the first three terms, with clinical pharmacology being commenced in fourth term in the form of small group tutorials, and is continued during the later years of the Medicine Course.

80.321 Medical Science

Aims to reinforce and extend the students' knowledge and understanding of the structure and function of the human body, and to emphasize the importance of the scientific basis of medicine.

Members from all schools in the Faculty and some servicing schools will contribute to the course. Deals with selected areas in depth in order to show the basic principles underlying the application of science to the practice of medicine.

Most topics have an immediate relevance to clinical teaching in the year but emphasis is placed on new areas of scientific knowledge which may be important in the future.

General Studies Elective

Two hours per week in Terms 1 and 2 are allocated to General Studies. For further information consult the Department of General Studies or the General Studies Handbook.

Year 4

Year 4 of the course is based in the teaching hospitals and comprises four terms totalling thirty-eight weeks. Each main teaching hospital is responsible for the implementation of its own program through a hospital committee appointed by the respective Boards of Medical Studies.

Year 4 consists of one subject taught over four terms: Term 1 (10 weeks), Term 2 (9 weeks), Term 3 (9 weeks), Term 4 (10 weeks).

80.400 Integrated Clinical Studies
(includes tutorials, laboratory work, time in wards, clinics and clinical attachments).

Rules of Progression

Students are required to pass each of two separate segments of the assessments, namely: a pass in the written papers combined as one segment and a pass overall in the clinical assessments as the second segment.

Students who have not completed the General Studies 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.

Special Notes

- Students who progress to Year 5 are placed in one of four groups for the rotating terms and Elective attachments. During Year 4 students are asked to arrange themselves into four provisional groups. Further details are issued by the Faculty Office during the year.
- Arrangements for Elective attachments in Year 5 must be made by the students themselves. Many students may wish to commence these arrangements while in Year 4, especially those wishing to undertake attachments overseas. Information concerning acceptable proposals is issued on enrolment or may be obtained from the Faculty Office. See also the section for Year 5, 'Assessment and Rules of Progression', for information on restrictions applying to the Elective term.

Year 4 Subject Description

80.400 Integrated Clinical Studies

Objectives: to achieve a high level of competence in communication skills, history-taking and physical examination; to be able to list a patient's physical, emotional and socio-economic problems; to interpret symptoms and signs in terms of disorders of structure and function; to understand the pathological processes which result in symptoms and signs; to know the relevant special investigations and how to interpret the results to establish a diagnosis; to formulate a course of management based on a knowledge of clinical pharmacology and appropriate surgical intervention; to understand the preventive and social aspects of disease and to be able to counsel appropriately; to understand the importance of rehabilitation to enable patients to regain their place in the community.

The general aspects of clinical care, aiming to provide students with experience in the medical and surgical wards and in community practice where they participate in clinical attachments. Systematic pathology is also offered and, where possible, it is integrated with clinical studies. In the fields of general medicine and general surgery and the associated clinical specialities, emphasis is on total patient care incorporating aspects of continuing care in the community and in community practice.

In the presentation of interdisciplinary seminars, the Schools of Medicine, Surgery and Pathology receive assistance from all other appropriate schools.

Assessment may comprise: one multiple choice paper with 140 questions relating to medicine, surgery, pathology, clinical pharmacology and community medicine; one short answer paper of fourteen questions from the above areas in similar proportion to the multiple choice question paper; clinical assessments which usually consist of one 'long case' in October and two 'short case' assessments in November. Full details are issued during the year.

Year 5

Year 5 is comprised of five terms, each of eight weeks. In Terms 5.1 to 5.4 students rotate through blocks of teaching in obstetrics and gynaecology, paediatrics, psychiatry, geriatrics, general practice and emergency, rather than studying the subjects concomitantly. For this purpose students are allocated to a particular group — Group A, B, C or D — and follow the program of that group for the first four terms. Work is assessed during or towards the end of each term.

Term 5.5 is an Elective term but may be a prescribed program in the case of a student who has failed to satisfy the examiners in one of Terms 5.1 to 5.4.

All students in Year 5 are enrolled in subject 80.105 Final Clinical Examinations (Terminal Assessment) and are required to sit for an examination at the conclusion of Term 5.5 unless exempted on results obtained during Year 5 and on overall performance in the Medicine Course.

The subjects studied in Year 5 are:

- 75.101 Obstetrics and Gynaecology
- 76.101 Paediatrics
- 77.101 Psychiatry
- 80.105 Final Clinical Examinations
- 80.500 Elective
- 80.501 Geriatrics/General Practice/Emergency

Sequence of Blocks

Group	A	B	C	D
Term 5.1 (8 weeks)	Geriatrics/ General Practice/ Emergency	Paediatrics	Psychiatry	Obstetrics & Gynaecology
Term 5.2 (8 weeks)	Paediatrics	Psychiatry	Obstetrics & Gynaecology	Geriatrics/ General Practice/ Emergency
Term 5.3 (8 weeks)	Psychiatry	Obstetrics & Gynaecology	Geriatrics/ General Practice/ Emergency	Paediatrics
Term 5.4 (8 weeks)	Obstetrics & Gynaecology	Geriatrics/ General Practice/ Emergency	Paediatrics	Psychiatry
Term 5.5 (8 weeks)	Elective	Elective	Elective	Elective

Assessment and Rules of Progression

The work of each rotating block is assessed during or towards the end of the block. Information concerning assessment in the Geriatrics/General Practice/Emergency block may be obtained from the Faculty office.

Students who fail in any one of these assessments are required to repeat the subject in term 5.5, thereby foregoing the right to undertake an elective term. Students are required to obtain a satisfactory level of competence in the work of the repeat term. Students who fail more than one block are required to repeat the year.

Students who have obtained a credit level of performance in the clinical component of the 80.400 Integrated Clinical Studies assessments and who satisfy the assessors in each block from 5.1 to 5.4 are required to arrange a personal program of work for term 5.5 in any department or school within the Faculty, at any hospital or medical institution elsewhere, or with any medical practitioner, provided that details of the elective term are submitted in writing and approved by the Dean by 27 June, 1986.

Students who have not obtained a credit level of performance in the clinical component of the 80.400 Integrated Clinical Studies assessments must undertake an elective program in an approved area of Medicine and/or Surgery, and must submit details of the term in writing for approval by the Dean by 27 June, 1986. Details of the types of attachments which are approved are available from the Faculty office.

For information about terminal assessment provisions affecting term 5.5 see below under the heading "Remedial Term 5.5 and Final Clinical Examinations".

Before the commencement of Term 5.5 the Assessment Committee will review the performance of each student over the five years of the Medicine Course to ensure that the student prior to graduation has reached an acceptable level

of competence. As a result of this review, and subject to a satisfactory assessment in the Elective Term, the committee may exempt certain students from the requirement to undertake a terminal assessment at the end of Term 5.5.

80.105 Final Clinical Examinations

Eligibility for Terminal Assessment

All students in Year 5 are enrolled in the subject 80.105 Final Clinical Examinations. In addition to those students automatically required to sit for the terminal assessment, all other students will be considered by the Assessment Committee for a final assessment and their performance throughout the course may be taken into account. Normally a student who has obtained a mark of 55 or more in the Year 4 assessment and in each of the rotating terms of Year 5 is exempted from this assessment.

A student may be required to undertake the terminal assessment or other form of assessment if the Term 5.5 Year 5 Assessment Committee considers that the report by the supervisor(s) in the Elective Term is unsatisfactory or if the student's report on that term is unsatisfactory.

The following students will not be exempted from the terminal assessment:

1. students who were given further assessment in 80.400 Integrated Clinical Studies;
2. students repeating the year;
3. students who fail any one term during the year;
4. students whose marks fall within the range 50-54 in 80.400 Integrated Clinical Studies in the Year 4 assessment and also in one rotating term in Year 5;
5. students whose marks fall within the range 50-54 in any two of the four rotating terms;
6. students granted leave at the end of Year 4 (other than students undertaking the Bachelor of Medical Science course at the end of this year — see BMedSc degree course outline) or who discontinue without failure in Year 5.

Students whose marks fall within the range 50-54 in 80.400 Integrated Clinical Studies in the Year 4 assessment will be **considered** for the terminal assessment. Such students may be exempted if they obtain a mark of 55 or more in each of the rotating terms.

Students who have obtained a mark of 55 or more in 80.400 Integrated Clinical Studies in the Year 4 assessment and whose marks fall within the range 50-54 in any one term in Year 5, but who are not required to repeat the term, will also be **considered** for the terminal assessment. Such students may be exempted subject to satisfactory performance in other subjects during the year.

The unofficial results for students in this category are released as "PS": under consideration for the terminal assessment.

Projected Format and Content of the Terminal Assessment

1. There may be three assessments comprising one 30 minute short case clinical viva, one long case assessment consisting of one hour with a patient followed by 30 minutes with the assessors, and one 30 minute oral assessment.

2. Each student is assessed by two assessors at each assessment. The assessing team is integrated, comprising members of the Schools of Community Medicine, Paediatrics, Psychiatry, Obstetrics and Gynaecology and Medicine and Surgery.

3. The 'long case' assessment is in an area of demonstrated weakness. At least one member of that assessing team will be concerned with the relevant subject.

4. A student may be assessed in Medicine and Surgery and any of the areas taught in Year 5.

Remedial Term 5.5 and Final Clinical Examinations

Students who are under consideration for the Terminal Assessment are required to undertake the Elective Term 5.5 in Medicine and Surgery under supervision in a hospital approved by the Schools of Medicine and Surgery, unless already required to repeat a term by virtue of having failed a term in Year 5.

Any prior approval for an Elective Term will be withdrawn if a student is placed *under consideration* for the terminal assessment or is required to complete a remedial term.

Final Year Elective Term 5.5

Students who have satisfied the Assessment Committee at the end of each block from Term 5.1 to 5.4 and who are not to undertake the terminal assessment (80.105 Final Clinical Examinations), are required to arrange a personal elective program of work for Term 5.5.

The following are not eligible to undertake the Elective Term:

1. Any student who has failed a term in Year 5.
2. Any student who sat for supplementary assessment in 80.400 Integrated Clinical Studies.
3. Any student who is under consideration for the terminal assessment. (Students are notified at the end of each term if they are at that stage under consideration for the terminal assessment.)
4. All students who are required to undertake the terminal assessment.

The Dean's approval of the program must be obtained by 27 June, 1986. A proposal to undertake an Elective Term overseas or interstate will not be approved after this time.

All students undertaking the Elective Term must do so in an approved area of Medicine or Surgery or both, except for those who have attained a credit level of performance in the clinical component of the 80.400 Integrated Clinical Studies assessments. Information about attachments approved by the Schools of Medicine and Surgery is available from the Faculty office.

Students who have attained a credit level of performance in the clinical component of the 80.400 Integrated Clinical Studies assessments may undertake work in one of the following areas (proposals which include work in more than one area are unlikely to be approved): 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 should make individual arrangements for electives and are advised that some overseas governments, health authorities and/or hospitals require very early applications, accompanied by certification that the applicant is an enrolled medical student of the university who is eligible to undertake the specified term. When making the arrangements, students should specifically request that an appropriate person is willing to act as a supervisor. The supervisor is asked to submit a report to the Dean's Office by the end of the third week in November.

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 Warden of Clinical Studies.

Assessment of the Elective Term

Each student is required to produce a report which describes the nature of the work done during the Elective Term. This should be approximately 1000 words in length. The reports from the student and the supervisor must be submitted to the Dean's office no later than the end of the sixth week of term. The reports are forwarded to the Heads of the relevant Schools for a decision as to whether the student has completed a satisfactory term, and thence to the Assessment Committee. It is the student's responsibility to ensure that both reports (including the supervisor's report) are received by the due date and in time for consideration by the Assessment Committee as late arrival will prejudice the allocation of an internship.

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.

Further information is issued on enrolment or may be obtained from the Faculty Office.

Attachment to a Hospital in the Solomon Islands

Applications must be lodged with the hospital by June of the year preceding that in which the term is to be taken. Each application must be accompanied by certification that the applicant is an enrolled medical student of the University who is eligible to undertake the specified term.

Year 5 Subject Descriptions

75.101 Obstetrics and Gynaecology

Objectives: to be able to take a history and perform a physical examination relevant to the female reproductive system; to recognize common disorders of the female reproductive system; to manage common medical gynaecological disorders likely to be seen in a

primary care practice; to provide antenatal and postnatal care for a normal woman and to recognize deviations from normal; to be able to provide emergency care when indicated and to know the indications for referral.

A program of lectures in core subjects, clinical, physiological and pathological conferences and simulated patient management problem exercises. Students are taught in small tutorial groups. Supervised clinical experience is gained in out-patient clinics, in-patient services and the labour wards of The Royal Hospital for Women, St. George, Canterbury, Port Kembla, Wollongong, Sutherland and other selected hospitals. Neonatal paediatric experience is integrated with the teaching of Obstetrics and Gynaecology. Full details are described in a booklet published by the school.

Assessment: Continuing evaluation of clinical work and in week eight, a final oral and written examination.

76.101 Paediatrics

Objectives: to understand the physical, emotional and intellectual aspects of normal childhood development; to be aware of the importance of the interactions of the child and the family and the social interactions between the child and the community; to be able to manage problems of growth, development and behaviour; to know how to provide acute primary care to the sick child; to understand the importance of nutrition, immunization, health screening and accident prevention; to be able to recognize medical problems in the neonate; to know the indications for referral.

The general paediatric program is taught at the Prince of Wales Children's Hospital and at the St. George and Sutherland Hospitals. Teaching includes some lectures, case conferences, discussion groups, seminars and ward rounds and clinical involvement. The main emphasis, however, is on clinical clerking. Students are expected to spend one night in four in residence, as well as one weekend per term. Neonatal paediatric experience is integrated with the teaching of Obstetrics and Gynaecology.

Assessment: A multiple choice question paper and a clinical examination.

77.101 Psychiatry

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

Formal teaching seminars are held in the mornings of the first seven weeks. The afternoons are spent at Prince Henry, Prince of Wales, St. George, St Vincent's, Sutherland and Rozelle 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 organized so that students receive the appropriate teaching of skills related to general hospital patients. Visits to appropriate community facilities are organized.

Assessment: A written examination is conducted on the first day of the eighth week, and viva voce examinations are carried out on the remaining mornings of the week. A liaison psychiatry report is also part of the assessment.

80.500 Elective

Objectives: These include one or more of the following:

to develop basic knowledge and skills in Medicine and/or Surgery; to acquire concentrated preliminary training for a career in a specialty of medicine; to experience a different pattern of health care delivery to 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.

Students who have successfully completed Terms 5.1 to 5.4 arrange a personal program of work for Term 5.5. Students who have not attained a credit level of performance in the clinical component of the 80.400 Integrated Clinical Studies examinations must undertake work in an area within Medicine and/or Surgery approved by the Schools of Medicine and Surgery. Those who have attained a credit level in that examination may develop a proposal to work in any school or department within the Faculty; at a hospital or medical institution either in Australia or in another country; or with a medical practitioner either in Australia or in another country. The program must be approved by the Dean prior to the commencement of the term and students must produce a report at the end of the Elective Term.

Further information may be obtained from the Faculty Office.

80.501 Geriatrics/General Practice/Emergency

Term Design: Students rotate through attachments in Geriatrics (2 weeks), General Practice (2 weeks), and Emergency (4 weeks). Information about organization of attachments may be obtained from the Faculty Office.

Geriatrics Unit

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

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

Assessment: Students are assessed on case report assignments.

General Practice Unit

Objectives: to understand the nature of general practice in terms of: the range and content of general practice as compared with the hospital practice; the management of patients outside a hospital setting; liaison and referral within community health services; the concept of prevention of disease and health maintenance; the problems of primary diagnosis and undifferentiated illness; the concept of continuing care; the special relationship between the general practitioner and the patient; the family setting and social context of the patient.

To recall the features of: a general practice interview; the process of general practice problem-solving; the techniques of keeping accurate medical records.

A two-week individual attachment to general practitioner preceptors either in Sydney or country New South Wales. Information about attachments may be obtained from Dr. D. Jaltman in the School of Community Medicine.

The course is essentially experiential with a heavy emphasis on community-based teaching.

Assessment: Continuing evaluation of clinical work.

Emergency Unit

Objectives: to recognize acute illness and life-threatening emergencies at presentation; to institute emergency measures to save life where indicated; to assess rapidly acute medical and surgical problems; to list, in order of priority, necessary procedures or investigations which will affect management to evaluate the criteria for specialist referral; to know the appropriate management of acute illness; to perform simple casualty procedures.

The experience should include the emergency care of some life threatening medical and surgical conditions, evaluation of the criteria for referral for specialist advice and care and appropriate use of investigations in primary medical care.

Information about allocation to attachments may be obtained from the Faculty Office.

Assessment: Students are assessed on the basis of a report by the student's supervisor to the Dean's office, and a report by the Student on an aspect of the attachment.

80.105 Final Clinical Examinations

Refer to the notes above.

Foundation Year Graduates' Medal

The Foundation Year Graduates' Medal has been established by the foundation year graduates in Medicine as a way of maintaining their links with the Faculty and to encourage the association between students of subsequent graduating years and their Faculty and fellows.

The Medal is awarded each year to a final year student who has displayed leadership and fellowship as a medical undergraduate. To be eligible for the award, which consists of a silver medal and a suitably inscribed certificate, the candidate must also have met the requirements for the award of the degrees of MB BS.

Nomination forms for the award are distributed to final year students on enrolment, with a closing date for the receipt of nominations at the end of Term 5.3. A postal ballot of final year students is conducted in term 5.4 and the result publicised following the Term 5.5 assessment meeting.

Intern Placement and Registration

Each medical graduate seeking registration as a medical practitioner in New South Wales must complete a period of twelve months 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.

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:

Intern Placement: Department of Health, NSW, McKell Building, Rawson Place, telephone 217 6666.

Registration: The Secretary, Medical Board of New South Wales, Level 23, McKell Building, Rawson Place, Sydney, telephone 217 6666, extension 5892.

Undergraduate Study

3820 Combined Science and Medicine Course (BSc MB BS)

The Science/Medicine course is an alternative course of study, whereby, over a six-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 offers 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 approved course of study leading to the award of the degree of BSc, and on completion, enter Year 3 of the normal Medicine Course.

The conditions for the award of the BSc are those laid down by the Board of Studies in Science and Mathematics (see **Combined Sciences Handbook**). 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. A psychology major is also a possibility; however, this cannot be completed in the three-year minimum.

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 performance in weighted subjects (excluding the BSc degree at honours level) throughout the combined course.

Course Details

The Science course is divided up into subjects each of which is assigned a 'unit value'. For the Science degree, 23 units are required, together with three General Studies electives. Students usually take 8 units in Year 1, 7 in Year 2, and 8 in Year 3. Students are strongly advised to complete the General Studies requirements during the first three years, before entering the Medicine Course; otherwise there are timetabling difficulties.

Year 1

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

Year 2

All students must take two units each of biochemistry, anatomy, and physiology, except that students majoring in biochemistry must take a unit of organic chemistry instead of one of the biochemistry units. One unit of human behaviour must be taken in either second or third year.

Year 3

Students are required to take a **minimum** of 4 Level III units in **the subject of their major**, which must be anatomy, biochemistry, physiology or psychology, together with a specified minimum number of units in anatomy, biochemistry, and physiology. The possible combinations are indicated in the following table.

Subjects

Details of all subjects are given in the Combined Sciences Handbook; details of subjects taught by Schools in the Faculty of Medicine are also published in the **Subject Descriptions** section later in this book.

Subjects are listed in order of their assigned prefixed, viz:

- 1 Physics
- 2 Chemistry
- 10 Mathematics
- 17 Biological Sciences
- 41 Biochemistry
- 70 Anatomy
- 73 Physiology and Pharmacology

Elective units may be chosen from subjects listed in Table 1 and from **Anatomy** units listed in Table 2 of the Board of Studies in Science and Mathematics section of the Combined Sciences Handbook.

Year 1

Session 1

- 2.121 Chemistry 1A
- 17.031 Biology A

Session 2

- 2.131 Chemistry 1B
- 17.041 Biology B
(Students in percentile range 31-100 in HSC 4 unit Science with Biology or 2 unit Biology may be permitted instead to transfer to 45.201 Invertebrate Zoology, 45.301 Vertebrate Zoology, 45.601 Introductory Genetics.)

Year 3

Full Year

- 1.001 Physics 1
- or*
- 1.021 Introductory Physics 1 (For Health and Life Scientists)
- 10.001 Mathematics 1
- or*
- 10.011 Higher Mathematics 1
- or*
- 10.021B General Mathematics 1B (Session 1 only)
- and*
- 10.021C General Mathematics 1C (Session 2 only)
- 1 General Studies elective

Year 2

Session 1

- 41.101 Biochemistry
- 70.011C Introductory Anatomy

Session 2

- 41.111 Biochemical Control*

Full Year

- 70.011A Histology 1
- 73.111 Physiology 1A
- 80.014 Human Behaviour (Science course)†

Session 1 and 2

- 1 General Studies elective

*Students majoring in biochemistry should take 2.102B Organic Chemistry instead of 41.111 Biochemical Control. For students majoring in biochemistry and physiology, 2.102B will be accepted in lieu of 41.111 as a prerequisite for 73.012 Physiology 2.

†Students not majoring in anatomy commonly take an additional anatomy unit in Session 2 — this may be either 70.012B Visceral Anatomy, 70.011B Mammalian Embryology, or 70.304 Histology 2 (listed in approximate order of likely usefulness).

†80.014 Human Behaviour is offered in even numbered years only and is undertaken by students in either their second or third year of the Science course.

	Anatomy Major	Biochemistry Major	Physiology Major
Core Units	1 General Studies elective 4 Level III Anatomy units <i>together with:</i>	1 General Studies elective 41.102A 41.102B <i>together with:</i>	1 General Studies elective 73.012 <i>together with:</i>
Single Major	73.012F 3 Elective units	2 Level III Anatomy units 73.012F 1 Elective unit	2 Level III Anatomy units 2 Elective units
Double Major with Anatomy	3 Level III Anatomy units (makes total of 7)	4 Level III Anatomy units	4 Level III Anatomy units
Double Major with Biochemistry	41.102A 41.102B	(Double major not available)	41.102A 41.102B
Double Major with Physiology	73.012	73.012	(Double major not available)

Note: 80.014 Human Behaviour is offered in even numbered years only and is undertaken by students in either their second or third year of the Science course.

Year 4

Students normally join Year 3 of the Medicine Course.

Students may apply to take honours in the subject of their major before proceeding to the Medicine Course. The honours program is a one-year research project in the school. Details are given in the **Combined Sciences Handbook** (Table 3 in the Board of Studies in Science and Mathematics Section and Subject Descriptions). Enquiries should be directed to the head of the appropriate school.

Honours may be awarded at the time of graduation with the degrees of MB BS, on the basis of a student's performance throughout the combined course (excepting any special studies for honours in Science). The award of honours shall be determined on the basis of a weighted aggregate mark, calculated as the sum of weighted aggregate marks obtained in the medical component of the course calculated in accordance with the rules applying to Course **3800**, together with an aggregate mark based on the Science component of the course.

Undergraduate Study

3830

Bachelor of Medical Science (BMedSc)

A one-year program leading to the award of the degree of BMedSc is offered to students in the Medicine Course who have achieved a high standard in their studies. 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 the BMedSc course, is issued to medical students in mid-year. 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 Medical Science Degree

1. (a) Undergraduates who have successfully completed the first two years of the Medicine Course may enrol for the degree of BMedSc in one of the following subjects: anatomy, biochemistry, physiology, psychology or in any other subject approved by the BMedSc Committee, provided that the candidate's performance in the subject area shall have been of a high standard.

(b) Undergraduates who have successfully completed the first three years of the Medicine Course may enrol for the degree of BMedSc in one of the following subjects: anatomy, biochemistry, microbiology, pathology, pharmacology, physiology, psychology, or in any other subject approved by the BMedSc Committee, provided that the candidate's performance in the subject area shall have been of a high standard.

(c) 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 BMedSc Committee.

(d) A student electing to undertake the course at the end of fourth year is not automatically required to undertake terminal assessment at the end of fifth year, but will be counselled to maintain clinical competency and encouraged and assisted to arrange a short 3-4 week medical/surgical attachment before commencing Year 5.

2. (a) Medical graduates may enrol for the degree of BMedSc in any subject approved by the BMedSc Committee provided that their performance in the subject area shall have been of a high standard.

(b) A graduate may register as a candidate for the degree in any of the schools of the Faculty of Medicine, the School of Biochemistry, the School of Microbiology or the School of Psychology, subject to the permission of the Head of School concerned and the BMedSc 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 such examinations as prescribed by the Head of School concerned and approved by the BMedSc Committee.

4. The duration of the course shall be 2 sessions.

5. The award upon completion of the course shall be the pass degree of Bachelor of Medical Science; if the performance of the student has been unsatisfactory, no award shall be made.

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 of the thesis is normally no more than 20,000 words.

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

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

5. A candidate's assessment is recorded in the following grades: High Distinction, Distinction, Credit, Pass, Pass Conceded and Fail (no award made).

Undergraduate Study

Subject Descriptions

Identification of Subjects by Number

A subject is defined by the Professorial Board as 'a unit of instruction approved by the University as being a discrete part of the requirements for a course offered by the University'.

Each approved subject of the University is identifiable both by number and by name as this is a check against nomination of subject other than the one intended.

Subject numbers are allocated by the Registrar and the system of allocation is based on the following guidelines:

1. The authority offering the subject, normally a School of the University, is indicated by the number before the decimal point.
2. Each subject number is unique and is not used for more than one subject title.
3. Subject numbers which have previously been used are not used for new subject titles.
4. Graduate subjects are indicated by a suffix 'G' to a number with three digits after the decimal point. In other subjects three or four digits are used after the decimal point.

Subjects taught are listed in full in the handbook of the faculty or board of studies responsible for the particular course within which the subjects are taken. Subject descriptions are contained in the appropriate section in the handbooks.

The **identifying numerical prefixes** for each subject authority are set out on the following page.

Servicing Subjects are those taught by a school or department outside its own faculty. Their subject descriptions are

published in the handbook of the faculty which originates the subject and are also published in the handbook of the Faculty in which the subject is taught.

The following pages contain descriptions for most of the subjects offered for the courses described in this book, the exception being the General Studies subjects. For General Studies subjects see the **General Studies Handbook** which is available free of charge.

HSC Exam Prerequisites

Subjects which require prerequisites for enrolment in terms of the HSC Examination percentile range, refer to the **1978 and subsequent Examinations**.

Candidates for enrolment who obtained the HSC in previous years or hold other high school matriculation should check with the appropriate school on what matriculation status is required for admission to a subject.

Information Key

The following is the key to the information which may be supplied about each subject:

- S1 (Session 1); S2 (Session 2)
- F (Session 1 *plus* Session 2, ie full year)
- S1 or S2 (Session 1 *or* Session 2, ie choice of either session)
- SS (single session, but which session taught is not known at time of publication)
- CCH class contact hours
- L (Lecture, followed by hours per week)
- T (Laboratory/Tutorial, followed by hours per week)
- hpw (hours per week)
- C (Credit or Credit units)
- CR (Credit Level)
- DN (Distinction)

School, Department etc <small>*Offers undergraduate subjects for a course outlined in this handbook</small>			Faculty	Page
1	School of Physics*	Science		54
2	School of Chemistry*	Science		54
4	School of Metallurgy	Applied Science		
5	School of Mechanical and Industrial Engineering	Engineering		
6	School of Electrical Engineering and Computer Science	Engineering		
7	School of Mining Engineering	Applied Science		
8	School of Civil Engineering	Engineering		
9	School of Wool and Pastoral Sciences	Applied Science		
10	School of Mathematics*	Science		54
11	School of Architecture	Architecture		
12	School of Psychology	Biological Sciences		
13	School of Textile Technology	Applied Science		
14	School of Accountancy	Commerce		
15	School of Economics	Commerce		
16	School of Health Administration	Professional Studies		
17	Biological Sciences*	Biological Sciences		55
18	School of Mechanical and Industrial Engineering (Industrial Engineering)	Engineering		
21	Department of Industrial Arts	Architecture		
23	School of Nuclear Engineering	Engineering		
25	School of Applied Geology	Applied Science		
26	Department of General Studies	Board of Studies in General Education		
27	School of Geography	Applied Science		
28	School of Marketing	Commerce		
29	School of Surveying	Engineering		
30	Department of Organizational Behaviour	Commerce		
31	School of Optometry	Science		
32	Centre for Biomedical Engineering	Engineering		
35	School of Building	Architecture		
36	School of Town Planning	Architecture		
37	School of Landscape Architecture	Architecture		
38	School of Food Science and Technology	Applied Science		
39	Graduate School of the Built Environment	Architecture		
40	Professorial Board			
41	School of Biochemistry*	Biological Sciences		55
42	School of Biotechnology	Biological Sciences		
43	School of Botany	Biological Sciences		
School, Department etc <small>*Offers undergraduate subjects for a course outlined in this handbook</small>			Faculty	Page
44	School of Microbiology	Biological Sciences		
45	School of Zoology*	Biological Sciences		56
46	Faculty of Applied Science	Applied Science		
47	Faculty of Engineering	Engineering		
48	School of Chemical Engineering and Industrial Chemistry	Applied Science		
50	School of English	Arts		
51	School of History	Arts		
52	School of Philosophy	Arts		
53	School of Sociology	Arts		
54	School of Political Science	Arts		
55	School of Librarianship	Professional Studies		
56	School of French	Arts		
57	School of Theatre Studies	Arts		
58	School of Education	Professional Studies		
59	Department of Russian	Arts		
60	Faculty of Arts	Arts		
61	Department of Music	Arts		
62	School of History and Philosophy of Science	Arts		
63	School of Social Work	Professional Studies		
64	School of German Studies	Arts		
65	School of Spanish and Latin American Studies	Arts		
66	Subjects Available from Other Universities			
67	Faculty of Science	Science		
68	Board of Studies in Science and Mathematics	Board of Studies in Science and Mathematics		
70	School of Anatomy	Medicine		56
71	School of Medicine	Medicine		57
72	School of Pathology	Medicine		57
73	School of Physiology and Pharmacology	Medicine		58
74	School of Surgery	Medicine		
75	School of Obstetrics and Gynaecology	Medicine		
76	School of Paediatrics	Medicine		
77	School of Psychiatry	Medicine		
78	School of Medical Education	Medicine		
79	School of Community Medicine	Medicine		59
80	Faculty of Medicine	Medicine		59
81	Medicine/Science/Biological Sciences	Medicine		
85	Australian Graduate School of Management	AGSM		
90	Faculty of Law	Law		
97	Division of Postgraduate Extension Studies			

Faculty of Medicine — Summary of Years 1 to 5 Subject Descriptions

The following Subject Descriptions are presented only by subject number and title, together with the year in which each subject is taken in the Medicine Course.

For full details of subject content and assessment consult the subject descriptions listed in the **Course Details**, under the relevant year listing in the **Undergraduate Study** section earlier in this handbook.

41.002 Medical Biochemistry and Genetics	Yr 2
70.001 Anatomy 1	Yr 1
70.002 Anatomy 2	Yr 2
73.002 Physiology	Yr 2
75.101 Obstetrics and Gynaecology	Yr 5
76.101 Paediatrics	Yr 5
77.101 Psychiatry	Yr 5
79.112 Community Medicine	Yr 3
80.010 Introductory Clinical and Behavioural Studies	Yr 1
80.012 Clinical Studies 2	Yr 2
80.013 Clinical Studies 3	Yr 3
80.105 Final Clinical Examinations	Yr 5
80.212 Human Behaviour 2	Yr 2
80.311 Paraclinical Science	Yr 3
80.321 Medical Science	Yr 3
80.400 Integrated Clinical Studies	Yr 4

80.500 Elective	Yr 5
80.501 Geriatrics/General Practice/Emergency	Yr 5
81.001 Medical Biophysics	Yr 1
81.002 Chemistry and Biochemistry for Medical Students	Yr 1

Physics

1.001 Physics 1 **F L3T3**

Prerequisites:

2 unit Mathematics* or

3 unit Mathematics or

4 unit Mathematics

and

2 unit Science (Physics) or

2 unit Science (Chemistry) or

4 unit Science (Multistrand)

Co-requisite: 10.021C or 10.001 or 10.011.

*HSC Exam Percentile Range
Required*

71-100

21-100

1-100 or

(for 1.001 only) 10.021B

31-100

31-100

31-100

*This refers to the 2 Unit Mathematics subject which is related to the 3 Unit Mathematics subject. It does not refer to the subject 2 Unit Mathematics (Mathematics in Society).

Aims and nature of physics and the study of motion of particles under the influence of mechanical, electrical, magnetic and gravitational forces. Concepts of force, inertial mass, energy, momentum, charge, potential, fields. Application of the conservation principles to solution of problems involving charge, energy and momentum. Electrical circuit theory, application of Kirchhoff's Laws to AC and DC circuits. Uniform circular motion, Kepler's Laws and rotational mechanics. Properties of matter: solids, liquids, gases. The wave theories of physics, transfer of energy by waves, properties of waves. Application of wave theories to optical and acoustical phenomena such as interference, diffraction and polarization.

1.021 Introductory Physics 1 (For Health and Life Scientists)

F L3T3

Prerequisites: None. *Co-requisites:* 10.021A and 10.021B, or 10.021B and 10.021C, or 10.001 or 10.011.

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.

uids and solids, changes of state, phase diagrams. Types of solids. Solutions and their properties. Colloids. Facts and theories about reaction kinetics.

Note: Students who have passed 2.121 or 2.131 may not enrol in 2.111 or 2.141. Students meeting the 2.121 or 2.141 prerequisite are not permitted to enrol in 2.111 without the permission of the Head of the School of Chemistry. Students who enrol in 2.111 must pass 2.111 before they can proceed to 2.121 or 2.131 or 2.141.

2.131 Chemistry 1B

S1 or S2 L2T4

Prerequisite: 2.121.

Chemical equilibrium, equilibrium constants, quantitative calculations applied to acid-base and solubility equilibria; buffers, titrations, chemical analysis. Oxidation and reduction reactions, electrode potentials. Chemical thermodynamics, entropy, free energy. Chemistry of carbon compounds, stereoisomerism; alkanes, alkenes, alkynes, aromatic compounds, alcohols, ethers, aldehydes, ketones, carboxylic acids and derivatives, amines.

Note: Students who have passed 2.111 may be permitted to enrol in 2.131 on application to the Head of the School of Chemistry.

Chemistry

2.102B Organic Chemistry

F or S2 L3T3

Prerequisite: 2.131 or 2.141. *Excluded:* 2.002B

Discussion of the major types of organic reaction mechanisms (eg addition, substitution, elimination, free-radical, molecular rearrangement) within context of important functional groups (eg aliphatic hydrocarbons, monocyclic aromatic hydrocarbons, halides, organo-metallic compounds, alcohols, phenols, aldehydes, ketones, ethers, carboxylic acids and their derivatives, nitro compounds, amines and sulfonic acids). Introduction to application of spectroscopic methods to structure determination.

2.121 Chemistry 1A

S1 or S2 L2T4

Prerequisites:

	HSC Exam Percentile Range Required
2 unit Mathematics* or	71-100
3 unit Mathematics or	21-100
4 unit Mathematics	1-100
and	
2 unit Science (Physics) or	31-100
2 unit Science (Chemistry) or	31-100
4 unit Science (multistrand) or	31-100
2 unit Science (Geology) or	51-100
2 unit Science (Biology)	51-100
or	
2.111.	

*This refers to the 2 Unit Mathematics subject which is related to the 3 Unit Mathematics subject. It does not refer to the subject 2 Unit Mathematics (Mathematics in Society).

Stoichiometry and solution stoichiometry. Properties of gases; kinetic molecular theory. Thermochemistry. Atomic structure, electron configurations and the periodic table. Types of chemical bonds, electronegativity, molecular geometry. Periodicity of physical and chemical properties of common representative elements and compounds. Liq-

Mathematics

10.001 Mathematics 1

F L4T2

Prerequisite:

	HSC Exam Percentile Range Required
2 unit Mathematics* or	71-100
3 unit Mathematics or	21-100
4 unit Mathematics	1-100
or	
10.021B.	

Excluded: 10.011, 10.021B, 10.021C.

*This refers to the 2 Unit Mathematics subject which is related to the 3 Unit Mathematics subject. It does not refer to the subject 2 Unit Mathematics (Mathematics in Society).

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

10.011 Higher Mathematics 1**F L4T2***Prerequisite:*

HSC Exam
Percentile Range
Required
71-100

3 unit Mathematics

or

4 unit Mathematics

11-100

Excluded: 10.001, 10.021B, 10.021C.

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

Basic cell structure; membranes, organelles, prokaryotic and eukaryotic cells; cellular locomotion; basic biological molecules; enzymes: structure and metabolic roles, cellular compartmentalization and enzyme function; diffusion, osmosis and active transport; theory of inheritance, linkage, mutation, information transfer and protein synthesis.

Requirements for Practical Work

Equipment required for practical work is set out in the *Course Guide*, available during enrolment time at the First Year Registration Centre (Physics Building). Students must purchase this *prior* to the first week of session.

10.021B General Mathematics 1B**S1 L4T2***Prerequisite:*

HSC Exam
Percentile Range
Required
51-100

2 unit Mathematics* or

3 unit Mathematics or

4 unit Mathematics

or

10.021A.

11-100

1-100

Excluded: 10.011, 10.001.

*This refers to the 2 Unit Mathematics subject which is related to the 3 Unit Mathematics subject. It does not refer to the subject 2 Unit Mathematics (Mathematics in Society).

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.

10.021C General Mathematics 1C**S2 L4T2***Prerequisite:* 10.021B. *Excluded:* 10.001, 10.011.

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.

17.041 Biology B**S2 L2T4***Prerequisite:* 17.031. *Excluded:* 17.021.

The evolution, diversity and behaviour of living things and the ways in which they have adapted to varying environments. Emphasis on the structure and function of flowering plants and vertebrate animals, and their roles in Australian ecosystems. The theory covered in lectures and tutorials is illustrated by observation and experiment in laboratory classes.

Biological Sciences

17.031 Biology A**S1 L2T4***Prerequisite:*

HSC Exam
Percentile Range
Required

2 unit Science (Physics) or

2 unit Science (Chemistry) or

2 unit Science (Geology) or

2 unit Science (Biology) or

4 unit Science (multistrand)

31-100

31-100

31-100

31-100

31-100

Biochemistry

41.101 Biochemistry**S1 L4T8***Prerequisites:* 17.041, and 2.121 and 2.131, or 2.141. *Excluded:* 2.003J.

The chemical properties of amino acids, peptides and proteins, carbohydrates, nucleic acids and lipids and the biological roles of these compounds. The nature and function of enzymes. The intermediary metabolism of carbohydrates, lipids and nitrogenous compounds. The molecular mechanism of gene expression and protein synthesis. Photosynthesis. *Practical work* to amplify the lectures.

41.102A Biochemistry of Macromolecules**S1 L3T9***Prerequisites:* 41.101 or 41.111 (students must obtain a clear pass (PS) in either of these subjects), 2.002B.

Polysaccharides and glycoproteins including bacterial cell walls. Chemistry and biology of polynucleotides. Methods of amino acid and nucleic acid sequence analysis. Protein structure and synthesis. Active centres of some proteins. Sub-unit organization of proteins. Enzyme kinetics. *Practical work* to illustrate the lectures and to provide experience in modern biochemical techniques.

41.102B Physiological Biochemistry S2 L3T9

Prerequisites: 41.101 or 41.111 (students must obtain a clear pass (PS) in either of these subjects), 2.002B

Electron transport and oxidative phosphorylation. Mitochondrial transport and function. Interrelationships in mammalian intermediary metabolism. Biochemical control mechanisms including hormones and allosteric interactions. Biochemistry of genetic diseases. Selected aspects of differentiation and development in higher organisms. *Practical work* to illustrate the lectures and to provide experience in modern biochemical techniques.

41.111 Biochemical Control S2 L2T4

Prerequisite: 41.101.

The relationship between structure and function of enzymes, selected protein systems and hormones. Metabolic networks and control mechanisms. *Practical work* to amplify the lectures.

Zoology

45.201 Invertebrate Zoology S1 L2T4

Prerequisites: 17.031, 17.041.

A comparative study of the major invertebrate phyla with emphasis on morphology, systematics and phylogeny. *Practical work* to illustrate the lecture course. Obligatory field camp.

45.301 Vertebrate Zoology S2 L2T4

Prerequisites: 17.031 and 17.021, or 17.041.

A 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 the lecture course. Field excursions as arranged.

Anatomy

Servicing Subjects

These are subjects taught within courses offered by other faculties.

For further information regarding the following subjects see the Combined Sciences Handbook. Subjects 70.011C Introductory Anatomy and 70.306 Functional Anatomy 1 also appear in the Faculty of Engineering Handbook.

70.011A Histology 1 F L1T2

Prerequisites: 17.031, 17.041.

Elementary theory of light and electron microscopy. Cell morphology and cell ultrastructure. Introduction to simple histological techniques. Basic histology, including the morphological and functional properties of epithelial, connective, muscle and nervous tissues. Systematic histology, including a histological examination of the major systems of the body: cardiovascular, respiratory, lymphatic, integumentary, digestive, endocrine, urinary, reproductive and nervous (including eye and ear). Two lectures per week, each lecture followed by a 2-hour practical-tutorial class. 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.

70.011B Mammalian Embryology F L1T2

Co-requisite: 70.011A.

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

70.011C Introductory Anatomy S1 L2T4

Prerequisites: 17.031, 17.041.

Introduction to gross anatomy, based on a study of prosected specimens. Musculoskeletal, cardiovascular, respiratory, gastrointestinal, genitourinary and nervous systems. General topographical and surface anatomy. Normal variations including those related to sex and age.

70.012B Visceral Anatomy S2 L2T4

Prerequisite: 70.011C.

The topographical anatomy of the great visceral systems — gastrointestinal, respiratory, cardiovascular, and genitourinary — and of the head and neck. Living and radiological anatomy.

70.012C Neuroanatomy 1**S1 L2T4***Prerequisites:* 70.011A, 70.011C.

The neurons, neuronal satellite cells. Functional anatomy of the central nervous system. Blood supply of central nervous system. Organs of special sense. Endocrine glands. Principles of peripheral nerve distribution.

70.013 Anatomy 4**F**

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

An honours program consisting of the preparation of an undergraduate thesis together with advanced tutorial courses and participation in School seminars.

70.304 Histology 2**S2 L2T4**

Prerequisite: 70.011A. *Excluded:* 70.3041. (If 70.304 is taken after 70.3041, total counts only 1 unit.)

Mammalian histology, with particular reference to the human. Practical histological procedures: fixation, section preparation, staining. Microscopy. Theoretical, practical and applied histochemistry.

70.3041 Histological and Histochemical Techniques**S2 L1T2**

Prerequisites: 17.031, 17.041 and either 41.101 or 45.301 or 70.011A. *Excluded:* 70.304.

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

70.305 Neuroanatomy 2**S2 L1T2**

Prerequisite: Credit or better in 70.012C.

In seminar format, topics in contemporary neuroanatomy, working from original papers. Includes: sensory and motor areas of the neocortex, hippocampus, cerebellum, and sense organs. Recent work on the development of the central nervous system. Recent advances in neurohistochemistry and neuroendocrinology. Students are required to undertake a substantial amount of private study.

70.306 Functional Anatomy 1**S1 L2T4**

Prerequisite: 70.011C.

Introduction to fundamental issues in the morphology and dynamics of human movement systems. Includes: physical properties of bone, muscle and connective tissue; biomechanics, movement analysis and neuromuscular control. These basic principles are applied to a detailed study of musculoskeletal components of head and neck and upper limb. Emphasis on modern analytical techniques and findings. Tutorials include detailed limb and joint dissections plus intensive study of surface and radiological anatomy.

70.307 Functional Anatomy 2**S2 L2T4**

Prerequisite: 70.306.

A continuation of 70.306. Includes: a detailed study of the musculoskeletal components of trunk and lower limb, functional morphology of muscle, biomechanics and energetics of walking and running.

Medicine

Servicing Subject

This is a subject taught within a course offered by another faculty.

For further information regarding this subject see the Combined Sciences Handbook.

71.001 Principles of Medicine for Optometry Students**FL1**

Prerequisite: None. Students normally take the subject in Year 4 of course 3950.

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

Pathology

Servicing Subject

This is a subject taught within a course offered by another faculty.

For further information regarding this subject see the Combined Sciences Handbook.

72.301 Basic and Applied Pathology**F L2T1**

Prerequisites: 70.011A, 70.011C, 73.111 or equivalent.

Lectures and practical class demonstrations. Includes exposition of the basic classification of pathological processes, study of the processes of cell and tissue degeneration, acute and chronic inflammation, vascular disease, including thrombosis, embolism, ischaemia and infarction. Coverage of the processes of healing and regeneration with specific reference to healing of skin wounds and the healing of fractures. Aberrations of cell growth used to introduce the subject of neoplasia and carcinogenesis. Exposure to examples of specific disease entities of general practical importance exemplifying the basic or fundamental processes such as appendicitis, pneumonia, arthritis, pulmonary and myocardial infarction as well as lung, alimentary and cerebral tumours. Correlation of pathological processes with development of specific clinical syndromes.

Physiology and Pharmacology

Servicing Subjects

These are subjects taught within courses offered by other faculties.

For further information regarding the following subjects see the Combined Sciences Handbook. The subject 73.111 also appears in the Faculty of Engineering Handbook.

73.011A Principles of Physiology (Optometry) F L2T4

Prerequisites: As for Physiology 1A except that 2.131 may be accepted as a co-requisite. *Excluded:* 73.111.

Covers the same general areas of physiology as Physiology 1A but in less detail and with less intensive practical courses. Principles of Physiology is taken only by students in the BOptom degree course.

73.012 Physiology 2 F L4T8

Prerequisites: 73.111, 41.101, 41.111.

A major subject offered in third year, providing a more advanced course of study in Physiology. Students spend considerable time performing laboratory experiments which illustrate various physiological principles and introduce them to the techniques used in physiological investigation. The course is orientated towards the areas of physiology constituting the major research interests of the School. It is divided into several sections which may be available in special circumstances as separate 1 and 2 unit Level III courses, including Membrane Biology, Neurophysiology and Organ Physiology, details of which are given below.

73.012A Membrane Biology S1 L2T4

For entry consult Head of School of Physiology and Pharmacology.

The properties of cell membranes including permeation of ions, solutes and water across membranes, generation of electrical signals in nerve and muscle cells produced by ion movements, and transmission of information between cells. Stress on modern research techniques and on a critical examination of appropriate classical papers.

73.012B Neurophysiology S1 L2T4

For entry consult Head of School of Physiology and Pharmacology.

A detailed study in two broad areas, neural mechanisms in sensation and the control of posture and movement. Includes the regulation of visceral and other autonomic effector structures and the neural substrates and correlates of certain higher functions such as speech, memory and consciousness. Directed towards the experimental analysis of nervous system function, to introduce the techniques and approaches used in neurophysiological research. Sensation: an integrated lecture and experimental course is given on somatic, visual and auditory sensory mechanisms. Laboratory work: students conduct psychophysical experiments to evaluate subjective sensory capabilities. The neural mechanisms underlying these subjective abilities are examined in animals in electrophysiological experiments which involve recording the impulse patterns from individual neurones

within the sensory systems. Students are required to analyze the mechanisms employed by the nervous system to code information about specific parameters of sensory stimuli.

Lectures and experiments on motor function are directed towards an understanding of the various reflex and voluntary mechanisms controlling posture and movement. The section dealing with nervous control of visceral function is concerned mainly with regulation of cardiorespiratory activity.

73.012C Organ Physiology S2 L4T8

Prerequisites: for 73.012A, B, C: normally as for 73.012. For entry consult Head of School of Physiology and Pharmacology.

An advanced study dealing with major physiological systems of the body and usually includes detailed segments from: the cardiovascular and respiratory systems; endocrines, kidney, fetal physiology, gastrointestinal physiology and exercise physiology. Emphasis on the functions of individual organs as well as the overall operations of particular body systems including their neural control mechanisms. Emphasis on the approaches and techniques involved in physiological research. Students are therefore required to carry out an extensive series of experiments which usually employ mammalian (including human) preparations.

73.012F Clinical Physiology F T3

Prerequisites: 73.111; 41.101; 41.111 or 2.002B; 70.011A; 70.011C; 80.014.

This Level III subject is only available in course 3820, and only to those students not undertaking Physiology 2. The subject is intended to supplement the Level II, Physiology 1A course in order to provide an adequate grounding for double degree students in applied or clinical aspects of physiology before they enter Year 3 of the Medical Course.

Covers aspects of normal and disordered physiology in the following areas: cardiovascular and cardiorespiratory mechanisms; body fluid balance and kidney function; the endocrine system; central nervous system; gastrointestinal physiology.

73.022 Pharmacology F L2T4

Prerequisite: 73.111 or 73.121. *Co-requisites:* 73.012 or 41.102A & 41.102B or two Level III Chemistry units.

Includes a study of the absorption, distribution and metabolism of drugs as well as 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. A practical class program complements the lecture program by demonstrating a variety of basic pharmacological techniques.

73.111 Physiology 1A F L2T4

Prerequisites: 17.031 & 17.041; 2.121 & 2.131, or 2.141; 10.001 or 10.011 or 10.021 B & C. *Excluded:* 73.121, 73.011A. *Co-requisite:* 41.101.

Introduction to fundamental physiological principles, dealing first with basic cellular function in terms of chemical and physical principles, and, second, with the operation of the various specialized systems in the body, for example, the cardiovascular system, whose function it is to transport materials to and from the tissues of the body; the respiratory system which must maintain the exchange of oxygen and carbon dioxide between the atmosphere and the blood; the gastrointestinal system which enables food materials to be modified by digestion and absorbed into the circulation; the kidney which is

involved in the regulation of body fluid and electrolyte balance and with the excretion of the waste products of metabolism; the endocrine system which releases chemical messengers, called hormones, that are carried in the blood stream to regulate a great variety of body functions, eg metabolism and reproductive activity; the nervous system which by means of very rapidly propagated electrical impulses is responsible for all our movements, sensations, memories, emotions and consciousness itself. A substantial series of practical class experiments on these different areas of physiology is included in the course. This subject is taken by students enrolled in any of the Physiology programs.

73.121 Physiology 1B

F L2T4

Prerequisites: As for Physiology 1A except that 2.131 may be accepted as a co-requisite. *Excluded:* 73.111.

Covers the same general areas of physiology as Physiology 1A but in less detail and with less intensive practical courses. Physiology 1B may be taken by students not intending to study physiology at Level III.

Community Medicine

Servicing Subjects

These are subjects taught within courses offered by other faculties.

For further information regarding the following subjects see the Combined Sciences Handbook.

79.201 Population Genetics

S1 L2T3

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

The genetic structure of populations: demographic structure, 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; observed human population structures; computer methods.

79.202 Quantitative Methods in Human Genetics

S2 L2T3

Prerequisites: one unit of genetics and one unit of statistical methods, or theory, as approved by the Head of School.

Collection, interpretation and uses of genetical information relating to human populations: design of surveys, including twin and family studies; estimation and applications of genic and genotypic frequencies, selective values, mutation and migration rates, coefficients of kinship, inbreeding and assortative mating, effective population sizes, recombination fractions and heritabilities; segregation analysis; risks of recurrence of disease; genetical consequences of human intervention; computer methods.

79.302 Biochemical Genetics of Man

S1 L2T4

Prerequisites: 41.101, 43.101.

Inherited variation of blood group antigens, serum proteins and red-cell enzymes, their possible selective roles, and their application to the study of differences between and within populations. Application of statistical techniques to analyzing population data.

Faculty of Medicine

Servicing Subject

This is a subject taught within courses offered by other faculties.

For further information regarding the following subject see the Combined Sciences Handbook.

80.014 Human Behaviour

F L3

Prerequisites: No formal prerequisites. Students normally take the subject in Year 2 of Course 3820.

The research techniques, theoretical concepts and basic findings of the behavioural sciences, especially as these relate to medicine. Special emphasis is placed on the development of skills for the critical evaluation of scientific data concerning human behaviour and the oral and written expression of such evaluations. Topics include: scientific methods in behavioural sciences; the influence of heredity and environment on behaviour; human motivation and emotion; thinking and language; learning and memory; the psychology of stress; the psychophysiology of sleep; the psychology of aging, addictive behaviours; altered states of consciousness; gender differences; and the psychology of interpersonal behaviour. In addition to attending seminars, students carry out experimental practical work.

Graduate Study

Faculty of Medicine Graduate Enrolment Procedures

All students enrolling in graduate courses should obtain a copy of the free booklet *Enrolment Procedures 1986* available from the School Offices and the Admissions Office. This booklet provides detailed information on enrolment procedures and fees, enrolment timetables by faculty and course, enrolment in miscellaneous subjects, locations and hours of Cashiers and late enrolments.

Students interested in undertaking a graduate course should consult the Postgraduate Section (through the Admissions Office in the Chancellery and/or the appropriate Head of School.

Graduate Courses

At the graduate level, study for the award of the degrees of Doctor of Medicine (MD), Master of Health Personnel Education (MHPEd), Master of Paediatrics (MPaed) and Master of Surgery (MS) may be undertaken; in addition the degrees of Doctor of Philosophy (PhD) and Master of Science (MSc) are also offered.

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

School of Medical Education

The School offers programs of study leading to the award of the degree of Master of Health Personnel Education either by research or by formal course work.

2885 **Master of Health Personnel Education** **By Research** **MHPEd**

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

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

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

9000**Master of Health Personnel Education
By Formal Course Work
MHPEd**

The course is designed to further the competence of health personnel educators with particular regard to the health care needs of their respective countries. A major emphasis in the course is on student activity, individually and in small groups.

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

Nominated Subjects

<i>Session 1</i>		Hours per week
78.101G	Learning and Teaching	2
78.102G	Educational Process in Small Groups	2
78.103G	Instructional Design	2
78.104G	Organization and Management for Health Personnel Education	2
78.106G	Teaching Skills	2
		<hr/> 10
<i>Session 2</i>		
78.105G	Curriculum Planning	2
78.107G	Assessment of Students	2
78.108G	Program Evaluation and Planned Change	2
		<hr/> 6

Academic Electives

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

<i>Session 1</i>		Hours per week
78.115G	Educational Selection	1
78.116G	Trends in Health Sciences Curricula	1
78.118G	Clinical Problem-solving	1

78.123G	Production of Audio Visual Materials	2
78.124G	Clinical Teaching	1
78.125G	Planning, Conducting and Evaluating Educational Workshops	2
78.127G	Research in Education for the Health Professions 1	2

<i>Session 2</i>		Hours per week
78.113G	Evaluation of Instructors	2
78.117G	Explorations in Personal Learning	2
78.119G	Clinical Decision-making	1
78.121G	Large Group Teaching	2
78.122G	Primary Health Care	2
78.126G	Self-directed Learning and Self-instruction	2
78.128G	Research in Education for the Health Professions 2	2

78.000 Independent Studies

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.

78.109G Project

Candidates are required, in addition to formal course work, to complete a six-month field project and report. The project is planned during the period of formal course work and carried out in the student's own country. 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.

School of Paediatrics

**9010
Master of Paediatrics
MPaed**

This course is under review. Contact the School of Paediatrics for further information.

The course requires three years' experience in various aspects of clinical paediatrics. This is normally undertaken during the part-time course of study. However, candidates who have already had extensive experience in clinical paediatrics under supervisors acceptable to the University

Medicine

may elect to enrol for the part-time course whilst undertaking other professional duties.

The professional experience normally involves approximately two years in a children's hospital and approximately one year in professional activities of a community nature outside the hospital. There is necessarily some degree of flexibility in the three years of professional activities. A feature of the course is the wide range of activities and studies available in the third year, permitting the development of a large number of special skills for future professional practice.

Studies in medicine, including undergraduate studies, do not readily conform to a sessional basis and the hours allocation listed below is largely notional because of this and because of the necessity to maintain a flexible arrangement.

All of the following subjects are compulsory.

Year 1	Hours per session	
	S1	S2
76.001G General Paediatrics 1		
<i>Lectures</i>	50	50
<i>Seminars</i>	10	10
76.003G Prenatal and Perinatal Paediatrics		
<i>Lectures</i>	10	10
<i>Seminars</i>	5	5
76.004G Child and Family Psychiatry		
<i>Lectures and Seminars</i>	10	10
76.005G Clinical and Technical Skills		
<i>Seminars</i>	20	20
<i>Practical</i>	40	40
76.010G Clinical Paediatric Experience 1		
Year 2		
	S1	S2
76.002G General Paediatrics 2		
<i>Seminars</i>	20	20
<i>Practical</i>	40	40
76.006G Organization of Health Services 1	10	10
76.008G Medical Statistics		
<i>Lectures and Practical</i>	0	10
76.020G Clinical Paediatric Experience 2		
Year 3		
	S1	S2
76.009G Community Paediatrics		
<i>Seminars and Practical</i>	60	60
<i>Project/Elective</i>	40	40
76.030G Clinical Paediatric Experience 3		

Graduate Study

Subject Descriptions

Identification of Subjects by Number

A subject is defined by the Professorial Board as 'a unit of instruction approved by the University as being a discrete part of the requirements for a course offered by the University'.

Each approved subject of the University is identifiable both by number and by name as this is a check against nomination of subject other than the one intended.

Subject numbers are allocated by the Registrar and the system of allocation is based on the following guidelines:

1. The authority offering the subject, normally a School of the University, is indicated by the number before the decimal point.
2. Each subject number is unique and is not used for more than one subject title.
3. Subject numbers which have previously been used are not used for new subject titles.
4. Graduate subjects are indicated by a suffix 'G' to a number with three digits after the decimal point. In other subjects three or four digits are used after the decimal point.

Subjects taught are listed in full in the handbook of the faculty or board of studies responsible for the particular course within which the subjects are taken. Subject descriptions are contained in the appropriate section in the handbooks.

The **identifying numerical prefixes** for each subject authority are set out on the following page.

Servicing Subjects are those taught by a school or department outside its own faculty. Their subject descriptions are

published in the handbook of the faculty which originates the subject and are also published in the handbook of the Faculty in which the subject is taught.

HSC Exam Prerequisites

Subjects which require prerequisites for enrolment in terms of the HSC Examination percentile range, refer to the **1978 and subsequent Examinations**.

Candidates for enrolment who obtained the HSC in previous years or hold other high school matriculation should check with the appropriate school on what matriculation status is required for admission to a subject.

Information Key

The following is the key to the information which may be supplied about each subject:

- S1 (Session 1); S2 (Session 2)
- F (Session 1 *plus* Session 2, ie full year)
- S1 or S2 (Session 1 or Session 2, ie choice of either session)
- SS (single session, but which session taught is not known at time of publication)
- CCH class contact hours
- L (Lecture, followed by hours per week)
- T (Laboratory/Tutorial, followed by hours per week)
- hpw (hours per week)
- C (Credit or Credit units)
- CR (Credit Level)
- DN (Distinction)

	School, Department etc	Faculty	Page		School, Department etc	Faculty	Page
1	School of Physics	Science		44	School of Microbiology	Biological Sciences	
2	School of Chemistry	Science		45	School of Zoology	Biological Sciences	
4	School of Metallurgy	Applied Science		46	Faculty of Applied Science	Applied Science	
5	School of Mechanical and Industrial Engineering	Engineering		47	Faculty of Engineering	Engineering	
6	School of Electrical Engineering and Computer Science	Engineering		48	School of Chemical Engineering and Industrial Chemistry	Applied Science	
7	School of Mining Engineering	Applied Science		50	School of English	Arts	
8	School of Civil Engineering	Engineering		51	School of History	Arts	
9	School of Wool and Pastoral Sciences	Applied Science		52	School of Philosophy	Arts	
10	School of Mathematics	Science		53	School of Sociology	Arts	
11	School of Architecture	Architecture		54	School of Political Science	Arts	
12	School of Psychology	Biological Sciences		55	School of Librarianship	Professional Studies	
13	School of Textile Technology	Applied Science		56	School of French	Arts	
14	School of Accountancy	Commerce		57	School of Theatre Studies	Arts	
15	School of Economics	Commerce		58	School of Education	Professional Studies	
16	School of Health Administration	Professional Studies		59	Department of Russian	Arts	
17	Biological Sciences	Biological Sciences		60	Faculty of Arts	Arts	
18	School of Mechanical and Industrial Engineering (Industrial Engineering)	Engineering		61	Department of Music	Arts	
21	Department of Industrial Arts	Architecture		62	School of History and Philosophy of Science	Arts	
23	School of Nuclear Engineering	Engineering		63	School of Social Work	Professional Studies	
25	School of Applied Geology	Applied Science		64	School of German Studies	Arts	
26	Department of General Studies	Board of Studies in General Education		65	School of Spanish and Latin American Studies	Arts	
27	School of Geography	Applied Science		66	Subjects Available from Other Universities		
28	School of Marketing	Commerce		67	Faculty of Science	Science	
29	School of Surveying	Engineering		68	Board of Studies in Science and Mathematics	Board of Studies in Science and Mathematics	
30	Department of Organizational Behaviour	Commerce		70	School of Anatomy	Medicine	65
31	School of Optometry	Science		71	School of Medicine	Medicine	
32	Centre for Biomedical Engineering	Engineering		72	School of Pathology	Medicine	65
35	School of Building	Architecture		73	School of Physiology and Pharmacology	Medicine	
36	School of Town Planning	Architecture		74	School of Surgery	Medicine	
37	School of Landscape Architecture	Architecture		75	School of Obstetrics and Gynaecology	Medicine	
38	School of Food Science and Technology	Applied Science		76	School of Paediatrics	Medicine	65
39	Graduate School of the Built Environment	Architecture		77	School of Psychiatry	Medicine	
40	Professorial Board			78	School of Medical Education	Medicine	66
41	School of Biochemistry	Biological Sciences		79	School of Community Medicine	Medicine	
42	School of Biotechnology	Biological Sciences		80	Faculty of Medicine	Medicine	68
43	School of Botany	Biological Sciences		81	Medicine/Science/Biological Sciences	Medicine	
				85	Australian Graduate School of Management	AGSM	
				90	Faculty of Law	Law	
				97	Division of Postgraduate Extension Studies		

Anatomy

Servicing Subject

This is a subject taught within a course offered by another faculty.

For further information regarding the following subject see the Engineering Handbook.

70.201G Introductory Functional Anatomy

An overview of human anatomy with special reference to the effects of chemical and physical trauma under industrial conditions. Includes reference to the musculoskeletal system, nervous system, lungs, kidneys, liver, brain, eyes, ears, all of which may be affected by industrial trauma.

Pathology

Servicing Subject

This is a subject taught within a course offered by another faculty.

For further information regarding this subject see the Faculty of Engineering Handbook and the Combined Sciences Handbook.

72.402G Principles of Disease Processes S1 L3 C3

Prerequisites: 73.111 or equivalent, 70.011C or equivalent.

The reaction of cells to injury, the inflammatory reaction; necrosis-vascular changes and infarction; reparative processes; fracture healing; neoplasia; reaction to implants; specific processes requiring prosthetic assistance.

Paediatrics

76.001G General Paediatrics 1

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.

76.002G General Paediatrics 2

Includes medical emergencies, chronic diseases and team work, especially work with health professionals other than medical graduates. As well as lectures, seminars, demonstrations and discussion groups there are supervised professional experiences involving increasing professional responsibility.

76.003G Prenatal and Perinatal Paediatrics

Prenatal development and prenatal and perinatal experiences, which affect the growing foetus and infant. Necessary professional supervised experience is obtained by clinical attachment to appropriate hospitals. Candidates are given increasing professional responsibility. There are lectures, seminars, discussion groups and demonstrations on manikins.

76.004G Child and Family Psychiatry

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.

76.005G Clinical and Technical Skills

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.

76.006G Organization of Health Services 1

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

76.008G Medical Statistics

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

76.009G Community Paediatrics

Evaluation and care of children in the community especially children with physical and mental handicaps. Intends to embrace problems not frequently encountered in hospitals. May include attachments to centres outside the metropolitan area of Sydney.

Medical Education

Health Personnel Education

78.101G Learning and Teaching

S1 L2

Focuses on the conditions which are necessary for learning and the responsibilities these imply for teaching. Stages of the process are outlined and the important factors in learning are developed within this framework. Problem-based, involving participation in workshops organized around common problems in teaching and learning. Integrates with 78.103G.

78.102G Educational Process in Small Groups

S1 L2

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.

78.103G Instructional Design

S1 L2

Application of skills and knowledge gained in 78.101G and the development of the ability to design instruction which is optimal for various learning objectives and conditions. Critical variables in instruction are identified and discussed in relation to their implications for design of instruction. A series of workshops dealing with the design of commonly used teaching methods.

78.104G Organization and Management for Health Personnel Education

S1 L2

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

78.105G Curriculum Planning

S2 L2

Builds on the competency based model of instructional development introduced in 78.103G 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.

78.106G Teaching Skills

S1 L2

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

78.107G Assessment of Students

S2 L2

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

78.108G Program Evaluation and Planned Change

S2 L2

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.

78.109G Project

Provides an opportunity for the candidate to focus on an area of health personnel education relevant to the candidate's professional interests and development and to the furthering of health personnel education.

78.110G Workshop in Culture, Subculture and Communication

S1 L2

Not offered in 1986.

An Academic Elective. How culture controls thinking and behaviour and the meaning attached to the behaviour of others in professional/client and teacher/learner situations. The multicultural group of health professionals dealing with education uses its own intercultural experiences to reveal difficulties in communication and learning related to different teaching formats and styles, and studies the relation between subculture and health beliefs, including the subculture of the health professions, and the relationship of health, illness and solutions to culture and subculture.

78.113G Evaluation of Instructors

S2 L2

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

78.115G Educational Selection

S1 L1

An Academic Elective. Aims to introduce participants to problems in selection of students into educational institutions. Includes definition of criteria, measurement of factors other than high school performance and establishing relationships between selection measures and performance criteria. Reviews attempts elsewhere to expand selection methods. Includes: formal selection procedures (job analysis and definition of competencies, predictor and criteria developments, methods of validation); common instruments used for selection in the medical and health fields; development and use of attitude measurements; problems of cross-cultural transfer of selection measures; and innovations in selection for medical education.

78.116G Trends in Health Sciences Curricula S1 L1

An Academic Elective. Supplements 78.105G Curriculum Planning. Trends in health sciences curricula such as integrated curricula, emphasis on community medicine, introduction of social and behavioural sciences, elective programs, early patient contact, nutrition education, problem-solving approaches and accelerated programs. Particular trends studied depend on interests of participants. Literature review in a circumscribed area, dealing with the nature of the trend, factors which determine it, its advantages and disadvantages, and pitfalls in implementation. Discussion of specific case studies and personal experience.

78.117G Explorations in Personal Learning S2 L2

An Academic Elective. Theoretical and practical aspects of adult learning with the aim of relating research findings to the practicalities of teaching undergraduates. Stress on the exploration of the group's own prior learning experiences and individual responses to classroom events. Aims mainly to increase each participant's understanding of the major factors involved in adult learning and to apply this to his or her own teaching activities, with some stress on the nature of the connections between teaching and learning and the skills required to monitor teaching activities. Topics include: learning environments, the role of the emotions, motivation, the influence of assessment, the effects of different teaching styles, teacher and course characteristics.

78.118G Clinical Problem-solving S1 L1

An Academic Elective. How clinicians sort out illness situations, explore problems, interpret unreliable data and classify an illness as a disease diagnosis. The structure of clinical problems and of clinical memory, diagnostic strategies, effectiveness and efficiency, investigation and the value of information, Bayesian calculation, and the nature of clinical judgement. Clinical, educational and research implications of empirical studies of professional/client interaction.

78.119G Clinical Decision-making S2 L1

An Academic Elective. Rational choice in investigation and management of clinical problems. Calculation of value of tests, assessing their effectiveness and efficiency, choosing 'next best test', calculating likelihoods of diagnoses, confidence, risk-taking, estimating likely outcomes and their importance, decision analysis, expected utility, subjective and objective probabilities, threshold influences, optimizing or satisficing, minimax and maximax approaches, judgement.

78.121G Large Group Teaching S2 L2

An Academic Elective. The process of explaining considered central to large group teaching; analysis of this process, dealing with the qualities and components of effective explaining. The types of lectures ranging from didactic to inductive, and the various ways in which lectures are structured, leading to an examination of the relationship between lecturing and learning. Strategies for improvement of lectures, and alternatives to lectures.

78.122G Primary Health Care S2 L2

An Academic Elective. 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.

78.123G Production of Audio Visual Materials S1 L2

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

78.124G Clinical Teaching S1 L1

An Academic Elective. 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 maximizing students' learning. Research in clinical teaching and its relation both to educational theory and to current practice.

78.125G Planning, Conducting and Evaluating Educational Workshops S1 L2

An Academic Elective. 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.

78.126G Self-directed Learning and Self-instruction S2 L2

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

78.127G Research in Education for the Health Professions 1 S1 L2

An Academic Elective. Develops an understanding of the role of research in the advancement of knowledge in education and skills in drafting research proposals, designing research and analyzing data. Includes an overview of the scientific method in the study of the educational process, research designs and instruments for data collection appropriate to education, and the sequence of research activity from problem formulation to dissemination of results. Integrates with 78.128G.

78.128G Research in Education for the Health Professions 2 S2 L2

An Academic Elective. Informs participants of current research in education for each of the health professions from which they come, and develops their skills in evaluating research papers. Includes an overview of 'ways of knowing' and the scientific method, guidelines for evaluating a research paper, application of these guidelines to selected research papers in education for the health professions, and presentations of current research interests and specific projects in education for these professions. Integrates with 78.127G.

Faculty of Medicine

Servicing Subjects

These are subjects taught within courses offered by other faculties.

For further information regarding the following subjects see the Faculty of Engineering Handbook.

80.701G Occupational Disease

S2L3 C3

Prerequisite: 70.201G or equivalent.

Physical environment and disease: Musculoskeletal system, physical trauma; heat and cold, burns, electric shock; radiation; pressure, vibration, noise, hearing. *Chemical environment and disease:* Metallic poisons, toxic compounds, gaseous poisons, carcinogens, allergens. *Microbial environment and disease.*

Systems approach: Gastrointestinal tract; renal system; central and peripheral nervous systems; visual system, respiratory system, air-borne particulates; skin.

80.702G Occupational Health Control

S1L3 C3

Prerequisite: 80.701G or equivalent.

Introduction; dose response; risk, codes of safe practice; protection of the worker; design of safe workplace; protective equipment; occupational health surveillance; epidemiology; occupational safety program; emergency arrangements; environmental health; non-occupational safety; safety services.

Graduate Study

Conditions for the Award of Higher 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 **Disciplines of the University: Faculty (Undergraduate Study)** in the Calendar.

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

For the list of graduate degrees by research and course work, arranged in faculty order, see **Disciplines of the University: Table of Courses (by faculty): Graduate Study** in the Calendar.

For the statements **Preparation and Submission of Project Reports and Theses for Higher Degrees and Policy with respect to the Use of Higher Degree Theses** see the Calendar.

Title	Abbreviation	Calendar/Handbook
Doctor of Science	DSc	Calendar
Doctor of Letters	DLitt	Calendar
Doctor of Laws	LLD	Calendar
Doctor of Medicine	MD	Calendar Medicine
Doctor of Philosophy	PhD	Calendar and all handbooks
Master of Applied Science	MAppSc	Applied Science
Master of Architectural Design	MArchDes	Architecture
Master of Architecture	MArch	Architecture
Master of Archives Administration	MArchivAdmin	Professional Studies

First Degrees**Higher Degrees****Higher Degrees**

	Title	Abbreviation	Calendar/Handbook
Higher Degrees (continued)	Master of Arts	MA	Arts Military Studies
	Master of Biomedical Engineering	MBiomedE	Engineering
	Master of Building	MBuild	Architecture
	Master of the Built Environment Master of the Built Environment (Building Conservation)	MBEnv	Architecture
	Master of Business Administration	MBA	AGSM
	Master of Chemistry	MChem	Sciences*
	Master of Commerce (Honours)	MCom(Hons)	Commerce
	Master of Commerce	MCom	Commerce
	Master of Education	MEd	Professional Studies
	Master of Educational Administration	MEdAdmin	Professional Studies
	Master of Engineering Master of Engineering <i>without supervision</i>	ME	Applied Science Engineering Military Studies
	Master of Engineering Science	MEngSc	Engineering Military Studies
	Master of Environmental Studies	MEnvStudies	Applied Science
	Master of General Studies	MGenStud	General Studies
	Master of Health Administration	MHA	Professional Studies
	Master of Health Personnel Education	MHPed	Medicine
	Master of Health Planning	MHP	Professional Studies
	Master of Industrial Design	MID	Architecture
	Master of Landscape Architecture	MLArch	Architecture
	Master of Laws	LLM	Law
	Master of Librarianship	MLib	Professional Studies
	Master of Mathematics	MMath	Sciences*
	Master of Music	MMus	Arts
	Master of Nursing Administration	MNA	Professional Studies
	Master of Optometry	MOptom	Sciences*
	Master of Paediatrics	MPaed	Medicine
	Master of Physics	MPhysics	Sciences*
	Master of Psychology	MPsychol	Sciences§
	Master of Safety Science	MSafetySc	Engineering
	Master of Science Master of Science <i>without supervision</i>	MSc	Applied Science Architecture Engineering Medicine Military Studies Sciences*§

Title	Abbreviation	Calendar/Handbook
Master of Science (Acoustics)	MSc(Acoustics)	Architecture
Master of Science (Biotechnology)	MSc(Biotech)	Sciences§
Master of Science (Building)	MSc(Building)	Architecture
Master of Science (Industrial Design)	MSc(IndDes)	Architecture
Master of Science (Psychology)	MSc(Psychol)	Sciences§
Master of Science and Society	MScSoc	Sciences*
Master of Social Work	MSW	Professional Studies
Master of Statistics	MStats	Sciences*
Master of Surgery	MS	Medicine
Master of Surveying	MSurv	Engineering
Master of Surveying <i>without supervision</i>		
Master of Surveying Science	MSurvSc	Engineering
Master of Town Planning	MTP	Architecture
Master of Welfare Policy	MWP	Professional Studies
Graduate Diploma	GradDip	Applied Science
		Architecture
		Engineering
		Sciences*§
		Sciences*
	DipFDA	Professional Studies
	DipEd	
	DipIM-ArchivAdmin	
	DipIM-Lib	

**Higher Degrees
continued**

Graduate Diplomas

*Faculty of Science.
§Faculty of Biological Sciences.

Higher Degrees

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.

**Doctor of Medicine (MD)
by published work**

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 with 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 three years.

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

3. A 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.

5. There shall normally be three examiners of the work, appointed by the Professorial Board on the recommendation of 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.

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

Doctor of Medicine (MD) by thesis

Qualifications

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.

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:

*Or department where a department is not within a school.

(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.

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

Thesis

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

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

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

(a) it must be an original and meritorious contribution to knowledge of the subject;

(b) it must be written in English and reach a satisfactory standard of expression and presentation;

(c) it must consist of the candidate's own account of the research; in special cases work done conjointly with other persons may be accepted provided the Committee is satisfied about the extent of the candidate's part in the joint research.

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

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

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

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

*Or department where a department is not within a school

Examination	<p>5. (1) There shall be not fewer than three examiners of the thesis, appointed by the Professorial Board on the recommendation of the Committee, at least two of whom shall be external to the University.</p> <p>(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:</p> <p>(a) the candidate be awarded the degree without further examination; or</p> <p>(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</p> <p>(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</p> <p>(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</p> <p>(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.</p> <p>(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee it may permit the candidate to re-present the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.</p> <p>(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.</p>
Fees	<p>6. A candidate shall pay such fees as may be determined from time to time by the Council.</p>

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

Qualifications	<p>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.</p>
Enrolment	<p>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.</p>
Thesis	<p>4. (1) A candidate shall submit a thesis embodying the results of the investigation.</p> <p>(2) A candidate shall give in writing to the Registrar two months notice of intention to submit the thesis.</p> <p>(3) The thesis shall comply with the following requirements:</p> <p>(a) it must be an original and meritorious contribution to knowledge of the subject;</p> <p>(b) it must be written in English and reach a satisfactory standard of expression and presentation;</p> <p>(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.</p> <p>(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 it is related to the thesis.</p>

*Or department where a department is not within a school.

(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 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.

5. (1) There shall normally be three examiners of the thesis, appointed by the Professorial Board on the recommendation of the Committee, at least two of whom shall be external to the University.

(2) Before the thesis is submitted to the examiners the head of the school* in which the candidate is enrolled shall certify that it is *prima facie* worthy of examination.

(3) After examining the thesis each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:

(a) the candidate be awarded the degree without further examination; or

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of school*; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

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

(5) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree.

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

Examination

Fees

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.

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.

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.

Doctor of Philosophy (PhD)

Qualifications

Enrolment and Progression

*Or department where a department is not within a school.

(2) In every case, before permitting a candidate to enrol, the head of the school* in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:

- (a) full-time attendance at the University;
- (b) part-time attendance at the University.

(4) A full-time candidate shall be fully engaged in advanced study and research except that the candidate may undertake not more than five hours per week or a total of 240 hours per year on work which is not related to the advanced study and research.

(5) Before permitting a part-time candidate to enrol, the Committee shall be satisfied that the candidate can devote at least 20 hours each week to advanced study and research for the degree which (subject to (8)) shall include regular attendance at the school* on an average of at least one day per week for 48 weeks each year.

(6) 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.

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

(8) The work, other than field work, shall be carried out in a school* of the University except that the Committee:

(a) may permit a candidate to spend not more than one calendar year of the program in advanced study and research at another institution provided the work can be supervised in a manner satisfactory to the Committee;

(b) may permit a candidate to conduct the work at other places where special facilities not possessed by the University may be available provided the direction of the work remains wholly under the control of the supervisor;

(c) may permit a full-time candidate, who has been enrolled as a full-time candidate for at least six academic sessions, who has completed the research work and who is writing the thesis, to transfer to part-time candidature provided the candidate devotes at least 20 hours each week to work for the degree and maintains adequate contact with the supervisor.

(9) 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.

(10) No candidate shall be awarded the degree until the lapse of six academic sessions from the date of enrolment in the case of a full-time candidate or eight academic sessions in the case of a part-time 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 four sessions for a part-time candidate.

(11) 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 candidate for the degree 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) 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 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;

*Or department where a department is not within a school.

(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.

5. (1) There shall be not fewer than three examiners of the thesis, appointed by the Professorial Board on the recommendation of the Committee, at least two of whom shall be external to the University.

Examination

(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 the school*; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to 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 be permitted to resubmit the thesis after a further period of study and/or research.

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

Fees

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.

**Master of Health
Personnel Education
(MHPEd) by Research**

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

Qualifications

(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.

*Or department where a department is not within a school.

- (2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.
- (3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.
- Enrolment and Progression**
- 3.** (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.
- (2) In every case, before permitting a candidate to enrol, the Head of the School of Medical Education (hereinafter referred to as the head of the school) shall be satisfied that adequate supervision and facilities are available.
- (3) An approved candidate shall be enrolled in one of the following categories:
- (a) full-time attendance at the University;
- (b) part-time attendance at the University;
- (c) external — not in regular attendance at the University and using research facilities external to the University.
- (4) A candidate shall be required to undertake an original investigation 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 work shall be carried out under the direction of a supervisor appointed 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 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 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.
- (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 eight 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 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 Professorial Board on the recommendation of 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 candidate be awarded the degree without further examination; or

- (b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school; or
 - (c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or
 - (d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research;
 - or
 - (e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.
- (3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to 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.

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

Fees

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.

**Master of Health
Personnel Education
(MHPEd) by Formal
Course Work**

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

Qualifications

- (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) 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.

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.

**Enrolment and
Progression**

(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 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.

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

Fees

**Master of Paediatrics
(MPaed)**

Qualifications

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

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

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

(b) have had at least one year's hospital experience subsequent to graduation of a kind acceptable to the Committee.

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

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

**Enrolment and
Progression**

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

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

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

(4) No candidate shall be awarded the degree until the lapse of six academic sessions from the date of enrolment. The maximum period of candidature shall be eight academic sessions from the date of enrolment. In special cases an extension of time may be granted by the Committee.

Fees

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

**Master of Engineering
(ME) and Master of
Science (MSc)**

Qualifications

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.

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

(2) An applicant who submits evidence of such other academic or professional attainments as may be approved by the Committee may be permitted to enrol for the degree.

(3) When the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant, before being permitted to enrol, to undergo such examination or carry out such work as the Committee may prescribe.

**Enrolment and
Progression**

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

(2) In every case, before permitting a candidate to enrol, the head of the school* in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:

(a) full-time attendance at the University;

*Or department where a department is not within a school.

(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.

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

Thesis

(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.

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

Examination

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

(a) the candidate be awarded the degree without further examination; or

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school*; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to a further oral, practical or written examination within a period specified by it but not exceeding eighteen months.

*Or department where a department is not within a school.

(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

Qualifications

1. The degree of Master of Engineering or Master of Science or Master of Surveying without supervision may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee) to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.

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

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 Professorial Board on the recommendation of 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

*Or department where a department is not within a school.

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

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

(5) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate 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.

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

Fees

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.

Master of Surgery (MS)

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.

Qualifications

(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.

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.

Enrolment and Progression

(2) In every case, before permitting a candidate to enrol, the head of the school* in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:

(a) full-time 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.

*Or department where a department is not within a school.

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

(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) 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.

(9) 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.

(10) 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.

Thesis 4. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the investigation.

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

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

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

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

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

Examination 5. (1) There shall be not fewer than three examiners of the thesis, appointed by the Professorial Board on the recommendation of 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 the school*; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

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

*Or department where a department is not within a school.

(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.

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

Fees

Scholarships and Prizes

The scholarships and prizes listed below are available to students whose courses are listed in this handbook. Each faculty handbook contains in its **Scholarships and Prizes** section the scholarships and prizes available within that faculty. The **General Information** section of the Calendar contains a comprehensive list of scholarships and prizes offered throughout the University.

Scholarships

Undergraduate Scholarships

Listed below is an outline only of a number of scholarships available to students. Full information may be obtained from Room G20, located on the Ground Floor of the Chancellery.

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

Donor	Value	Year/s of Tenure	Conditions
General			
Bursary Endowment Board*	\$200 pa	Minimum period of approved degree/combined degree course	Merit in HSC and total family income not exceeding \$6000
Sam Cracknell Memorial	Up to \$3000 pa payable in fortnightly instalments	1 year	Prior completion of at least 2 years of a degree or diploma course and enrolment in a full-time course during the year of application; academic merit; participation in sport both directly and administratively; and financial need

*Apply to The Secretary, Bursary Endowment Board, PO Box 460, North Sydney 2060, immediately after sitting for HSC.

Undergraduate Scholarships (continued)

Donor	Value	Year/s of Tenure	Conditions
General (continued)			
Girls Realm Guild	Up to \$1500 pa	1 year renewable for the duration of the course subject to satisfactory progress and continued demonstration of need	Available only to female students under 35 years of age who are permanent residents of Australia enrolling in any year of a full-time undergraduate course on the basis of academic merit and financial need
W. S. and L. B. Robinson**	Up to \$3800 pa	1 year renewable for the duration of the course subject to satisfactory progress	Available only to students who have completed their schooling in Broken Hill or whose parents reside in Broken Hill; for a course related to the mining industry. Includes courses in mining engineering, geology, electrical and mechanical engineering, metallurgical process engineering, chemical engineering and science.
Universities Credit Union	\$500 pa	1 year with the possibility of renewal	Prior completion of at least 1 year of any undergraduate degree course. Eligibility limited to members of the Universities Credit Union Ltd of more than one year's standing or members of the family of such members.

Graduate Scholarships

Application forms and further information are available from the Student Enquiry Counter, located on the Ground Floor of the Chancellery. Information is also available on additional scholarships which may become available from time to time, mainly from funds provided by organizations sponsoring research projects.

The following publications may also be of assistance: **1.** *Awards for Postgraduate Study in Australia and Awards for Postgraduate Study Overseas*, published by the Graduate Careers Council of Australia, PO Box 28, Parkville, Victoria 3052; **2.** *Study Abroad*, published by UNESCO*; **3.** *Scholarships Guide for Commonwealth Postgraduate Students*, published by the Association of Commonwealth Universities*.

**Applications close 30 September each year.

*Available for reference in the University Library.

Graduate Scholarships (continued)

Donor	Value	Year/s of Tenure	Conditions
General (continued)			
University of New South Wales Postgraduate Scholarships	Living allowance of \$6500 pa. Other allowances may also be paid.	1-2 years for a Masters and 3-4 years for a PhD degree	Applicants must be honours graduates (or equivalent). Applications to Dean of relevant Faculty.
Commonwealth Postgraduate Research Awards			Applicants must be honours graduates (or equivalent) or scholars who will graduate with honours in current academic year, and who are domiciled in Australia. Applications to Registrar by 31 October.
Commonwealth Postgraduate Course Awards	Living allowance of \$7616 pa. Other allowances may also be paid.	1-2 years; minimum duration of course	Applicants must be graduates or scholars who will graduate in current academic year, and who have not previously held a Commonwealth Post-graduate Award. Preference is given to applicants with employment experience. Applications to Registrar by 30 September.
Australian American Educational Foundation Travel Grant (Fulbright)*			Applicants must be graduates, senior scholars or post-doctoral Fellows. Applications close 30 September.
Australian Federation of University Women	Amount varies, depending on award	Up to 1 year	Applicants must be female graduates who are members of the Australian Federation of University Women
The Caltex Woman Graduate Scholarships	Six State awards of \$5000 each	1 year	Applicants must be female graduates who will have completed a University degree or diploma this year and who are Australian citizens or have resided in Australia for at least seven years. Selection is based on scholastic and literary achievements, demonstrable qualities of character and accomplishments in cultural and/or sporting/recreational activities. Applications close late September.
	One National award valued at \$20,000 pa for study at an approved overseas institution.	2 years	
Commonwealth Scholarship and Fellowship Plan	Varies for each country. Generally covers travel, living, tuition fees, books and equipment, approved medical expenses. Marriage allowance may be payable.	Usually 2 years, sometimes 3	Applicants must be graduates who are Australian citizens and who are not older than 35 years of age. Applications close with Registrar in September or October each year.
The English-Speaking Union (NSW Branch)	\$5000		Applicants must be residents of NSW or ACT. Awarded to young graduates to further their studies outside Australia. Applications close mid-April.
Frank Knox Memorial Fellowships at Harvard University	Stipend of US\$6000 pa plus tuition fees	1, sometimes 2 years	Applicants must be British subjects and Australian citizens, who are graduates or near graduates of an Australian university. Applications close with the Registrar mid-October.

*Application forms are available from The Secretary, Department of Education, AAEF Travel Grants, PO Box 826, Woden, ACT 2606.

Graduate Scholarships (continued)

Donor	Value	Year/s of Tenure	Conditions
General (continued)			
Gowrie Scholarship Trust Fund	\$3500 pa. Under special circumstances this may be increased.	2 years	Applicants must be members of the Forces or children of members of the Forces who were on active service during the 1939-45 War. Applications close with Registrar by 31 October.
Harkness Fellowships of the Commonwealth Fund of New York*	Living and travel allowances, tuition and research expenses, health insurance, book and equipment and other allowances for travel and study in the USA	12 to 21 months	Candidates must be: 1. Either members of the Commonwealth or a State Public Service or semi-government Authority. 2. Either staff or graduate students at an Australian university. 3. Individuals recommended for nomination by the Local Correspondents. The candidate will usually have an honours degree or equivalent, or an outstanding record of achievement, and be not more than 36 years of age. Applications close 31 August.
The Rhodes Scholarship†	Approximately £3600 stg pa	2 years, may be extended for a third year	Unmarried male and female Australian citizens aged between 19 and 25 who have been domiciled in Australia at least 5 years and have completed at least 2 years of an approved university course. Applications close in mid-September each year.
Rothmans Fellowships Award**	\$20000 pa	1 year, renewable up to 3 years	The field of study is unrestricted. Applicants must have at least 3 years graduate experience in research. Applications close in July.
Sam Cracknell Memorial	Up to \$3000 pa		See above under Undergraduate Scholarships, <i>General</i>

Medicine

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

The Australian Kidney Foundation	\$11160-\$12760 pa	1 year renewable	To enable a suitable graduate to undertake research related to kidney and urinary tract. Applications close 1 September.
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*Application forms must be obtained from the Australian representative of the Fund, Mr J. T. Larkin, Department of Trade, Edmund Barton Building, Kings Avenue, Barton, ACT 2600. These must be submitted to the Registrar by early August.

†Applications to The Honorary Secretary of the NSW Committee, University of Sydney, NSW 2006.

**Applications to the Secretary, Rothmans University Endowment Fund, University of Sydney, NSW 2006.

Graduate Scholarships (continued)

Donor	Value	Year/s of Tenure	Conditions
Medicine (continued)			
Australian Tobacco Research Foundation	\$11160-\$12760 pa plus allowances	1 year renewable	To enable a suitable graduate to undertake research in the relationship between tobacco smoking and health and disease. Applications close 30 June.
The National Health and Medical Research Council			Applications close 30 June
National Heart Foundation of Australia			Applications close 31 May
The New South Wales State Cancer Council			Applications close 15 July

Prizes

Undergraduate University Prizes

The following table summarizes the undergraduate prizes for this Faculty awarded by the University. Prizes which are not specific to any School are listed under General. All other prizes are listed under the Faculty or Schools in which they are awarded.

Information regarding the establishment of new prizes may be obtained from the Examinations Section located on the Ground Floor of the Chancellery.

Donor/Name of Prize	Value \$	Awarded for
General		
Sydney Technical College Union Award	150.00 and medal	Leadership in the development of student affairs, and academic proficiency throughout the course
University of New South Wales Alumni Association	Statuette	Achievement for community benefit – students in their final or graduating year

Undergraduate University Prizes (continued)

Donor/Name of Prize	Value \$	Awarded for
Faculty of Medicine		
Australian Medical Association	300.00	A report based on the student's period of attachment in general practice
FRATADD	250.00	Essay on a clinical or scientific aspect of alcoholism or a drug of dependence (one prize available to undergraduates and graduates)
Combined Teaching Hospitals Senior Staff	250.00	General proficiency by a graduating student in the clinical years
Prince of Wales Hospital Ladies Auxiliary	100.00	General proficiency in Years 1 and 2 of the medical course
The Sugerman	1000.00	Most proficient research work done in basic or applied pathology in the Bachelor of Medical Science degree course
Wallace Wurth	200.00	General proficiency throughout the medical course

School of Anatomy

The Gray's Point Prize in Anatomy	50.00	Highest aggregate mark in Year 1 of Anatomy
Jane Skillen in Anatomy	40.00	Outstanding merit in all branches of Anatomy
The Prize in Practical Anatomy	100.00	Practical Anatomy (including Radiological Anatomy) – Year 2 of the medical course
The Winifred Dickes Rost	50.00	Outstanding merit in Anatomy in the final year of the Bachelor of Science degree course

School of Community Medicine

2/5 Australian General Hospital Association	150.00	Proficiency in Community Medicine, final year
Australia and New Zealand Society of Occupational Medicine	100.00	Excellence in the Occupational Health option of 79.112 Community Medicine
New South Wales Department of Health	100.00	79.112 Community Medicine

School of Medicine

W. G. Telleson Memorial	31.50	Best performance in 80.013 Clinical Studies 3 in Year 3 of the Medicine course
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Undergraduate University Prizes (continued)

Donor/Name of Prize	Value \$	Awarded for
School of Obstetrics and Gynaecology		
Gordon Lowe Memorial	25.00	Clinical and oral examinations in Obstetrics and Gynaecology
Royal Hospital for Women Senior Medical Staff	100.00	Final written and practical examinations in Obstetrics and Gynaecology

School of Paediatrics

Margaret Dance Memorial Award	105.00	For a student with good academic attainments and who undertakes additional studies in Paediatrics during the elective term or at some other time
	100.00	
	100.00	
Paediatrics Staff	100.00	For graduand who excels in Paediatrics

School of Pathology

G. R. Cameron Memorial	50.00	Highest aggregate mark in the Pathology component of 80.311 Paraclinical Science
The Sugerman	1000.00	Most proficient student in a combination of the Pathology component of 80.311 Paraclinical Science and 80.400 Integrated Clinical Studies in Year 4 of the Medicine degree course and in Year 5 of the combined Science and Medicine degree course

School of Physiology and Pharmacology

F. C. Courtice — for Physiology	100.00	For the highest aggregate mark in 73.012 Physiology 2
	100.00	The student achieving the highest aggregate marks for Physiology in the Combined Science and Medicine Course

School of Psychiatry

David Jeremy Keen Memorial	50.00	80.212 Human Behaviour 2
John Kerridge Memorial	100.00	Psychiatry, Final Year

Undergraduate University Prizes (continued)

Donor/Name of Prize	Value \$	Awarded for
School of Surgery		
The Graduation — in Surgery	100.00	80.400 Integrated Clinical Studies
The Royal Australian College of Ophthalmologists	100.00	Essay on Ophthalmological subject

Graduate University Prizes

The following table summarizes the graduate prizes for this Faculty awarded by the University.

Donor/Name of Prize	Value \$	Awarded for
Faculty of Medicine		
FRATADD	250.00	Essay on a clinical or scientific aspect of alcoholism or a drug of dependence (one prize available to undergraduates and graduates)

Staff

Comprises Schools of Anatomy, Community Medicine, Medical Education, Medicine, Obstetrics and Gynaecology, Paediatrics, Pathology, Physiology and Pharmacology, Psychiatry, and Surgery.

Dean

Professor W. E. Glover

Chairman

Professor I. W. Webster

Senior Lecturer

§Edward Maxwell Nicholls, MD BS *Adel*.

Executive Officer

Vacant

Administrative Officer

Ian Duart Maclean

Administrative Assistant

Moya Patricia Pedemont

School of Anatomy

Professor of Anatomy and Head of School

Frederick William Dickes Rost, BSc(Med) MB BS *Syd.*,
PhD DCP *Lond.*, DipRMS

§Conjoint appointment with the Faculty of Engineering.

Professor

Jonathan Stone, BSc(Med) PhD DSc *Syd.*, FAA

Senior Lecturers

Ewa Krystyna Bystrzycka, MD *Lodz*.

Darrel Ananda Fernando, BVSc *Ceyl.*, PhD *Lond*.

Brian Warwick Freeman, BSc *Syd.*, PhD *N.S.W.*

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

Murray Stanley Smith, BSc PhD *Cant.*, MHPEd *N.S.W.*

Istvan Joseph Törk, MD *Bud*.

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

Lecturer

Elizabeth Jane Tancred, BSc PhD *N.S.W.*

Senior Tutor

Judith Helen Burrell, BVSc *Syd.*, MVSc *Melb*.

Tutors

Damayanthi Hemamali Atapattu, BSc PhD *Ceyl.*, MSc *Ohio*

Anna Clair Davidson, BSc *N.S.W.*, DipPhy *Cumberland Coll*.

Roger Lewis Feltham, BSc *A.N.U.*, MB BS DipEd *N.S.W.*

Susan Franklin, BSc *Wales*, MSc *S'ton.*, PhD *Syd*.

Philip George van Zanden, BSc *N.S.W.*

Visiting Fellow

Maurice Arnold, MB ChB *Witw.*, FRCSEd

Professional Officers

Patrick John de Permentier, MSc *N.S.W.*

Geoffrey Douglas Schneider, BSc *Qld*.

Honorary Visiting Fellow

Lawrence John Gray, MB BS Syd., FRACS

School of Community Medicine

Professor of Community Medicine and Head of School

Ian William Webster, MD BS *Melb.*, FRACP

Professor of Geriatrics

Peter Frank Sinnott, MD BS Syd., FRACP

Associate Professor of Rehabilitation

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

Associate Professor

*John Ambler Snowden, MA MB BChir *Camb.*, MPhil *Lond.*, FRACP, MRCPsych, MRANZCP

Senior Lecturers

Lawrence Yook Chee Lai, BSc PhD *W.Aust.*, MHPed *N.S.W.*
 Alan Edmund Stark, BA *Adel.*, MA PhD *N.S.W.*, DipT *Adel. T.C.*

Lecturers

**Russell Donald Clark, MB BS DTM&H Syd., FRACP
 ‡Alan Murray Lloyd, MB BS Syd., FRACP
 Paul Murray McNeill, MA *Cant.*, LLB *Otago*
 Andrea Mant, MB BS Syd., MA *A.N.U.*
 Robyn Lesley Richmond, MA Syd., PhD *N.S.W.*
 Deborah Claire Saltman, MB BS Syd.
 John Alan Ward, MB BS *Qld.*, MSc *Lond.*

Honorary Associate

George Garrett Burniston, CMG, OBE, MB BS Syd., DPRM, FACMA, FRSH

Honorary Visiting Fellows

Gabriel Godoco Carreon, MD *Philippines*, FRACMA
 Joyce Margaret Ford, BSc MB BS Syd., FRACMA
 David George Fox, MB BS DPH Syd., FRACMA
 Francis Bathurst Halliday, MB BS Syd., DOMS(RCP&S), FRACO
 Keith Wallington Hills Harris, ED, MB BS DPH Syd., FRACMA, FCCP, FRIPA

*Conjoint appointment with Prince Henry and Prince of Wales Hospitals.

*Conjoint appointment with Prince Henry and Prince of Wales Hospitals.

**Conjoint appointment with St Vincent's Hospital.

‡Conjoint appointment with Waverley War Memorial Hospital.

Michael James Harris, MB BS Syd., DCH(RCP&S), FRCP, FRACP
 John Hans Hirshman, MB BS DPH DTM&H Syd., FRACMA
 Peter MacDonald Trebilco, BA Syd.
 Nanette Stacy Waddy, MBE, MB BS Syd., FRANZCP

Professional Officer

Stephen Ronald Lord, BSc MA Syd.

School of Medical Education

Professor of Surgery and Head of School

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

Senior Lecturers

Raja Christie Bandaranayake, MB BS *Ceyl.*, PhD *Lond.*, MEd *S.Calif.*
 Christine Elizabeth Ewan, BA MB BS PhD Syd.
 Arie Rotem, BA *Jer.*, MA PhD *Calif.*
 Ruth Hilary White, BA *A.N.U.*, MEd EdD *Col.*

Lecturer

Susan Sara Irvine, MB ChB *Auck.*, MPH SM *Harv.*

Tutors

Joy Higgs, BSc MHPed *N.S.W.*, DipPhy *Cumberland Coll.*
 Barbara Ruth Leigh, BA Syd.

Administrative Officer

Diane Jennifer Dwyer, BCom *N.S.W.*

School of Medicine

Chairman

Professor J. B. Hickie

The Prince Henry and The Prince of Wales Hospitals

Professor of Medicine and Head of Department

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

Professor of Neurology

*James Waldo Lance, CBE, MD BS Syd., FAA, FRCP, FRACP

Associate Professors

*Michael Anthony, OBE, MD BS Syd., FRCP, FRACP

Terry Dorcen Bolin, MB BS Syd., MD N.S.W., DCH Lond., FRCP, FRACP, MRCPed

*Clement Russell Boughton, MB BS DTM&H Syd., MD N.S.W., FRCP, FRACP

*David James Burke, MD DSc N.S.W., FRACP

Hal John Hester Colebatch, MD BS Adel., FRACP

Alan Edward Davis, MD BS Syd., BSc MA Oxf., FRCP, FRACP

Graham Jon Macdonald, BSc(Med) MB BS Syd., MD N.S.W., FRACP, FRCP

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

David Emil Leon Wilcken, MD BS Syd., FRCP, FRACP

Associate Professor in Diagnostic Radiology

*Frederick John Palmer, MB ChB Sheff., DMRD Lond., FRCR, FRACR, MRCP

Senior Lecturers

John Alfred Charlesworth, MB BS N.S.W., MD Syd., FRACP

John David Gillies, MB BS Syd., MD N.S.W., FRACP

Lecturers

*Vimala Venugopalan Nayanar, MB BS Madras, DDU Syd., MRACR

*Robert Leo Philips, BSc MB BCh Witw., DMRD Lond.,

DDUAustSocUltMed, FRCR, MRACR

Research Fellow

Simon Charles Gandevia, BSc(Med) MB BS PhD N.S.W.

Professional Officers

Clifford Ng, MSc N.S.W.

Peter William Owen, MSc N.S.W.

Helen Margaret Theile, BSc Qld., MSc N.S.W.

St George Hospital**Professor of Medicine and Head of Department**

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

Senior Lecturers

David John de Carle, MB BS N.S.W., FRACP

††John Patrick Edmonds, MB BS Syd., FRACP

Donald Sidney Pryor, MD BS Syd., FRACP

*Conjoint appointment with Prince Henry and Prince of Wales Hospitals

*Conjoint appointment with Prince Henry and Prince of Wales Hospitals

††Conjoint appointment with St George Hospital.

Lecturer

Stephen Anthony Krlis, MB BS N.S.W., PhD Syd., FRACP

Research Fellow

Lou Eugene McGuigan, MB BS N.S.W., FRACP

St Vincent's Hospital**Professor of Medicine and Head of Department**

John Bernard Hickie, AO, MB BS Syd., FRCP, FRCPEd, FRACP, FACC

Associate Professors

**James Crawford Biggs, MB BS Syd., DPhil Oxf., FRACP, FRCPA

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

**Leslie Lazarus, MB BS Syd., FRACP, FRCPA, FAACB

Ronald Penny, MD BS Syd., DSc N.S.W., FRACP, FRCPA

Michael Francis O'Rourke, MD BS Syd., FRACP, FACC

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

Senior Lecturers

**David Hamilton Bryant, MD BS Syd., FRACP

**Paul Darveniza, MD BS Syd., FRACP, AAAN

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

**Michael Anthony McGrath, MB BS Syd., MD N.S.W., FRACP

Lecturer

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

Research Fellows

Albert Avolio, BE PhD N.S.W.

Michael Kerry Atkinson, MB BS Lond., MD Wash.State., FRCP

Michael Patrick Feneley, MB BS N.S.W., FRACP

Thomas Peter Gavaghan, MB BS N.S.W., FRACP

Edward William Kraegen, BSc PhD N.S.W., MACPSM

Dennis Lawrence Kuchar, MB BS Syd., FRACP

Rory Marcus Marks, BSc(Med) MB BS N.S.W., FRACP, FRCPA

Philip Neil Sambrook, MB BS N.S.W., FRACP

Robert Lyndsay Sutherland, MAgSc Cant., PhD A.N.U.

**Conjoint appointment with St Vincent's Hospital.

**Conjoint appointment with St Vincent's Hospital

School of Obstetrics and Gynaecology

Professor of Obstetrics and Gynaecology and Head of School

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

Associate Professor

Barry George Wren, MB BS *Syd.*, MD MHPed *N.S.W.*, FRCOG, FRACOG

Senior Lecturers

Graeme Jackson Hughes, MB BS *N.S.W.*, FRACOG, MRCOG
David Charles Ross Macourt, MB BS *Syd.*, FRCOG, FRCSEd, FRACOG

Lecturers

Leo Robin Leader, MB ChB *CapeT.*, FRACOG, FCOG(SA), MRCOG, DARCS
Deborah Margarette Wass, MB BS *Syd.*, FRACOG, MRCOG

School of Paediatrics

Professor of Paediatrics and Head of School

John Beveridge, AO, MB BS *Syd.*, FRACP

Associate Professors

*Aubrey Charles Bowring, AM, MB BS *Syd.*, FRCS, FRCSEd, FRACS
Jagdish Mitter Gupta, MB BS *Malaya*, MD *Sing.*, DCH *Lond.*, FRCPEd, FRACP
Darcy William O'Gorman Hughes, MB BS *Syd.*, MD *N.S.W.*, FRACP
Leslie Herbert Stevens, MB ChB BSc *N.Z.*, PhD *Lond.*, FRACP

Senior Lecturers

Gabriel Antony, MD *Bud.*, FRACP, LRCPSEd, LRFPSGlas, DABP, DABPE
John Douglas Mitchell, MB BS *Melb.*, FRACP
*John Bernard Ziegler, MB BS *Syd.*, FRACP

*Conjoint appointment with Prince Henry and Prince of Wales Hospitals

*Conjoint appointment with Prince Henry and Prince of Wales Hospitals

School of Pathology

Professor of Pathology and Head of School

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

Professor of Pathology

*Bruce Albert Warren, BSc(Med) MB BS *Syd.*, DPhil DSc *Oxf.*, FRCPath, FRCPA

Associate Professors

*Sydney Malcolm Bell, MD BS *Syd.*, FRCPA
*Douglas Duncan Smith, MD ChB *Glas.*, FRCPA, MRCPATH

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Cameron Rolfe Howlett, BVSc PhD *Syd.*, MRCVS, MACVSc
Rakesh Kamal Kumar, MB BS *All India IMS, New Delhi*, PhD *N.S.W.*
Ruth Evelyn Mitchell, BMedSc MD ChB *Otago*, DCH *Lond.*
**Vincent Frederick Munro, MB BS DCP *Syd.*, FRCPA
Denis Wakefield, MD BS *N.S.W.*, FRACP, FRCPA
Jimmy Leng Chai Yong, BSc(Med) MB BS PhD *N.S.W.*, FRCPA

Honorary Associate

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

Research Fellow

Garry John Smith, BSc *Syd.*, PhD *W.Aust.*

School of Physiology and Pharmacology

Professor and Head of School

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Professor of Physiology

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Denis Newell Wade, BSc(Med) MB BS *Syd.*, DPhil *Oxf.* FRACP

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†In the field of physiology

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Robert Alastair Beveridge Holland, MD BS *Syd.*, FRACP
 Eugenie Ruth Lumbers, MD BS *Adel.*
 Mark Joseph Rowe, BPharm MSc *Syd.*, PhD *N.S.W.*

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 John Joseph Carmody, MD BS *Qld.*
 **Richard Osborne Day, MB BS *Syd.*, MD *N.S.W.*, FRACP
 David George Garlick, BSc(Med) MB BS *Syd.*, PhD *A.N.U.*
 **David Brunton Gibb, BSc(Med) MB BS *Syd.*, DOBstRCOG *Lond.*,
 FFARCS, FRCS, FFARACS
 Gary George Graham, MSc PhD *Syd.*
 Bruce Stanley Nail, BSc *W.Aust.*, DPhil *Oxf.*

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 *Dennis Robert Kerr, MB BS *N.S.W.*, FFARACS, DipABA
 Ian Richard Neering, BSc PhD *N.S.W.*, MSc *Syd.*
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Senior Tutors

Gillian Phyllis Courtice, BSc PhD *Syd.*
 Dana Domnica Jamieson, MSc *Syd.*

Tutors

Andrew Neil Davies, BSc *Monash*
 Rosemary Christina Kingsford, BSc *Syd.*, DipEd *Syd.TeachersColl.*,
 DipAnimalCare *N.S.W.I.T.*
 Bernard John Kornfield, BSc *N.S.W.*
 Miriam Helen Solomon, BPharm *Syd.*

Research Fellow

Erica Kathleen Potter, BSc *Syd.*, PhD *N.S.W.*

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 Kenneth Harry Curtis, AIST(Lond)

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 FRACP, FRACS, FAA

Honorary Associate

Bernard Joel Lake, MB BS *Syd.*, MRCP, MRCPed

**Conjoint appointment with St Vincent's Hospital

*Conjoint appointment with Prince Henry and Prince of Wales Hospitals

School of Psychiatry

Professor and Head of School

Gordon Barraclough Parker, MB BS *Syd.*, MD PhD *N.S.W.*, FRANZCP

Professors

*John Ewart Cawte, MD BS *Adel.*, DPM *Melb.*, PhD *N.S.W.*,
 FRANZCP, FRCPsych, FAPA
 *Brent Geoffrey Herbert Waters, MB BS *Monash*, FRANZCP,
 FRCPSCan

Associate Professors

John Gavin Andrews, ChB MD *Otago*, DPM *Melb.*, FRANZCP,
 MRCPsych
 Nathaniel McConaghy, MB BS *Qld.*, BSc *ML*, DPM *Melb.*, FRANZCP

Senior Lecturers

*Neil Steven Buhrich, MB BS *Syd.*, MD *N.S.W.*, DPM *Lond.*,
 MRCPsych
 ††Karl Max Koller, MB BS *Syd.*, MD *N.S.W.*, MRANZCP
 *Florence Levy, MB BS *Melb.*, MPh *Yale*, MD *N.S.W.*, MRANZCP
 *Richard John Perkins, MB BS *Lond.*, DPM(RCP&RCS), MRCPsych
 *Noel Maurice Wilton, MB BS *Syd.*, FRACP FRANZCP

Lecturers

Philip Manley Boyce, MB BS *Lond.*, DipPy *Adel.*, FRANZCP, MRCS,
 LRCP
 *Henry Brodaty, MB BS *Syd.*, FRACP, MRANZCP
 **James Graham Durham, MB BS *Adel.*, DPM *Melb.*, FRANZCP
 Philip Bowden Mitchell, MB BS *Syd.*, MRCPsych, MRANZCP
 Derrick Michael Silove, MB ChB *CapeT.*, MRANZCP

Tutors

Maureen Frances, BSc *N.S.W.*, MSc *A.N.U.*
 Renate Wagner, PhD *Vienna*

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Megan Denise Neilson, BSc *Syd.*, PhD *N.S.W.*
 Kay Wilhelm, MB BS *N.S.W.*, FRANZCP

School of Surgery

Chairman

Professor R. M. Mitchell

*Conjoint appointment with Prince Henry and Prince of Wales Hospitals

††Conjoint appointment with St George Hospital

**Conjoint appointment with St Vincent's Hospital

The Prince Henry and The Prince of Wales Hospitals

Professor of Surgery and Head of Department

Gerald Francis Murnaghan, MD ChM *Edin.*, FRCS, FRCSEd, FRACS

Associate Professor of Ophthalmology

Frederick Cossom Hollows, MD ChB *N.Z.*, DO *Lond.*, FRCS, FACO

Associate Professors

John MacKenzie Ham, MD BS *Syd.*, FRACS, FACS

*Kevin Mead, MB BS *Syd.*, DMRT *Lond.*, FRCR, FRACR

*John Saxon Wright, MB BS *Syd.*, FRACS, FACS

Senior Lecturers

*David John Moran, MB BS *N.S.W.*, FRACS, FRACO

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

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

Project Scientist

Margaret Anne Rose, BVSc *Syd.*, PhD *N.S.W.*

St George Hospital

Professor of Surgery and Head of Department

Robert Mervyn Mitchell, BMedSc *Otago*, MB ChM *N.Z.*, FRCS, FRACS

Associate Professors

David Robert Hunt, MD BS *Syd.*, FRACS

Christopher John Magarey, BSc(Med) MB MS *Syd.*, FRCS, FRACS

Lecturer

††William Monaghan, MB BS DipLabRelations&theLaw *Syd.*, FRACGP

St Vincent's Hospital

Associate Professor and Head of Department

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

Professor of Surgery

Vacant

*Conjoint appointment with Prince Henry and Prince of Wales Hospitals.

††Conjoint appointment with St George Hospital.

Senior Lecturer

David Alexander Hill, MB BS *Syd.*, MS *N.S.W.*, FRCS, FRACS, FRCSEd

Lecturer

Anthony Robert Graham, MB BS *Syd.*, FRCS, FRACS

Department of Anaesthetics and Resuscitation

Associate Professors

**Gordon Alfred Harrison, MB BS *Syd.*, MHPEd *N.S.W.*, FFARACS

*Thomas Andrew Gabriel Torda, MB BS *Syd.*, MD *N.S.W.*, DA *Lond.*, DipABA, FFARCS, FFARACS

Senior Lecturers

*George Madgwick Davidson, MB BS DA *Syd.*, FFARACS

**Brian Francis Horan, MB BS *Syd.*, FFARCS, FFARACS

Lecturer

††Stephen Paul Gatt, MD *Malta*, FFARACS, MRCS, LRCP

Department of Traumatic and Orthopaedic Surgery

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

Ronald Lawrie Huckstep, CMG, MA MD *Camb.*, FRCSEd, FRCS, FRACS, FTS

Professional Officer

Frank Michael Strmecki

Animal Facilities

Director

Uwe Erich Friese, BSc *Wash.*, MSc *Syd.*

**Conjoint appointment with St Vincent's Hospital.

*Conjoint appointment with Prince Henry and Prince of Wales Hospitals.

††Conjoint appointment with Royal Hospital for Women.

Biomedical Mass Spectrometry Unit

Manager

Alan Malcolm Duffield, BSc PhD *W.Aust.*, FRACI

Professional Officer

Raymond Owen Lidgard, BSc *Syd.*, DipEd *S.T.C.*

Centre for Cardiovascular Research

Director

Professor J. B. Hickie

Centre for Continuing Medical Education

Honorary Director

Harold Kramer, MB ChB *Cape T.*, DPhil *Oxf.*, FRCPA, FCRPath, FRACP, FRACMA, FAACB

Executive Secretary

Charles Paul Moess, DJur *E.L.*, BA *Syd.*, MHPed *N.S.W.*

Centre of Immunology

Director

Associate Professor R. Penny

Regional Teacher Training Centre for Health Personnel

Director

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

Electron Microscope Unit

Electron Microscopist

Melvyn Roderick Dickson, BSc *N.Z.*, PhD *A.N.U.*, DipRMS

Medical Illustration Unit

Officer-in-charge

Kenneth Walter Deason, AIMBI, ARPS, AIAP

Clinical Teaching Administration

Teaching Hospitals

The Prince Henry and Prince of Wales Hospitals

Warden of Clinical Studies

Maxwell Elmore Cochrane Thorpe, MB BS *Syd.*, MD *N.S.W.*, FRACP

Administrative Assistant

Margaret Mary Coyle

St George Hospital

Honorary Warden and Student Adviser

Benedetto Haneman, MB BS *Syd.*, FRACP

Administrative Assistant

Gordon Lester Rees

St Vincent's Hospital

Warden of Clinical Studies

Marguerite Nash Weston, MB BS Syd., FRACP

Administrative Assistant

Ann Elizabeth Walsh

Royal Hospital for Women

Warden of Clinical Studies

Edward Graham Bosch, MB BS Syd., MRCOG

Associated Hospitals

Canterbury Hospital

Honorary Clinical Supervisor

Reginald Laris Walker, MB BS Syd., FRCPEd

Lewisham Hospital

Honorary Clinical Supervisor

Gregory John Leslie, MB BS Syd., FRCS, FRACS

Sutherland Hospital

Clinical Supervisor

George Meredith Stathers, MB BS Syd., FRACP

The University of New South Wales Kensington Campus 1986

Theatres

Biomedical Theatres E27
 Central Lecture Block E19
 Classroom Block (Western Grounds) H3
 Rex Vowels Theatre F17
 Keith Burrows Theatre J14
 Main Building Theatre K14
 Mathews Theatres D23
 Parade Theatre E3
 Science Theatre F13
 Sir John Clancy Auditorium C24

Buildings

Affiliated Residential Colleges
New (Anglican) L6
Shalom (Jewish) N9
Warrane M7
 Applied Science F10
 Architecture H14
 Arts (Morven Brown) C20
 Banks F22
 Barker Street Gatehouse N11
 Basser College C18
 Biological Sciences D26
 Central Store B13
 Chancellery C22
 Chemistry
Dalton F12
Robert Heffron E12
 Civil Engineering H20
 Commerce (John Goodsell) F20
 Dalton (Chemistry) F12
 Electrical Engineering G17
 Geography and Surveying K17
 Goldstein College D16
 Golf House A27
 Gymnasium B5
 House at Pooh Corner N8
 International House C6
 Io Myers Studio D9
 John Goodsell (Commerce) F20
 Kanga's House O14
 Kensington Colleges C17 (Office)
Basser C18
Goldstein D16
Philip Baxter D14
 Main Building K15

Maintenance Workshop B13
 Mathews F23
 Mechanical and
 Industrial Engineering J17
 Medicine (Administration) B27
 Menzies Library E21
 Metallurgy E8
 Morven Brown (Arts) C20
 New College (Anglican) L6
 Newton J12
 NIDA D2
 Parking Station H25
 Philip Baxter College D14
 Robert Heffron (Chemistry) E12
 Sam Cracknell Pavilion H8
 Shalom College (Jewish) N9
 Sir Robert Webster
 (Textile Technology) G14
 Squash Courts B7
 Swimming Pool B4
 Unisearch House L5
 University Regiment J2
 University Union
 (Roundhouse) — Stage I E6
 University Union
 (Blockhouse) — Stage II G6
 University Union
 (Squarehouse) — Stage III E4
 Wallace Wurth School of Medicine C27
 Warrane College M7
 Wool and Pastoral Sciences B8

General

Academic Staff Office C22
 Accountancy F20
 Admissions C22
 Adviser for Prospective Students F15
 Alumni and Ceremonials C22
 Anatomy C27
 Applied Geology F10
 Applied Science (Faculty Office) F10
 Architecture
 (including Faculty Office) H14
 Arts (Faculty Office) C20
 Audio Visual Unit F20
 Australian Graduate
 School of Management G27
 Biochemistry D26
 Biological Sciences (Faculty Office) D26

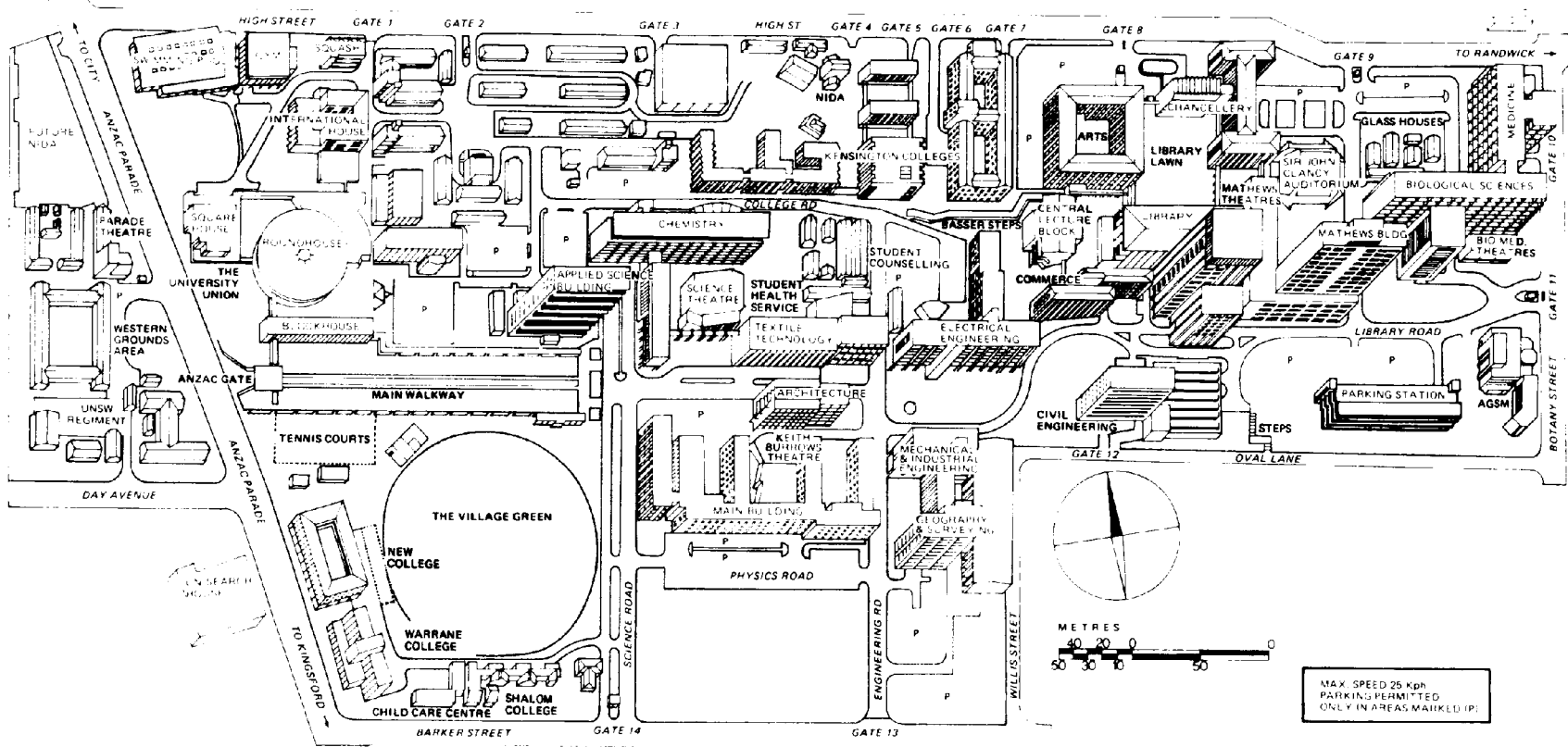
Biomedical Library F23
 Biotechnology D26
 Bookshop G17
 Botany D26
 Building H14
 Careers and Employment F15
 Cashier's Office C22
 Centre for Biomedical Engineering A28
 Centre for Medical Education
 Research and Development C27
 Centre for Remote Sensing K17
 Chaplains E15a
 Chemical Engineering and
 Industrial Chemistry F10
 Chemistry E12
 Child Care Centres N8, O14
 Civil Engineering H20
 Commerce (Faculty Office) F20
 Committee in Postgraduate Medical
 Education B27
 Community Medicine D26
 Computing Services Unit F21
 Continuing Education Support Unit F23
 Economics F20
 Education G2
 Education Testing Centre E15d
 Electrical Engineering and
 Computer Science G17
 Energy Research, Development and
 Information Centre B8b
 Engineering (Faculty Office) K17
 English C20
 Examinations C22
 Fees Office C22
 Food Science and Technology F10
 French C20
 General Staff Office C22
 General Studies C20
 Geography K17
 German Studies C20
 Graduate School of the Built
 Environment H14
 Health Administration C22
 History C20
 History and Philosophy of Science C20
 Industrial Arts H14
 Industrial Engineering J17
 Institute of Rural Technology B8b
 Japanese Economic Management
 Studies Centre G14
 Kanga's House O14

Kindergarten (House at Pooh Corner) N8
 Landscape Architecture K15
 Law (Faculty Office) F21
 Law Library F21
 Librarianship F23
 Library E21
 Lost Property F20
 Marketing F20
 Mathematics F23
 Mechanical Engineering J17
 Medicine (Faculty Office) B27
 Metallurgy E8
 Microbiology D26
 Mining Engineering K15
 Music B11b
 National Institute of Dramatic Art D2
 Nuclear Engineering J17
 Off-campus Housing C22
 Optometry J12
 Organizational Behaviour F20
 Pathology C27
 Patrol and Cleaning Services F20
 Philosophy C20
 Physics K15
 Physical Education and
 Recreation Centre (PERC) B5
 Physiology and Pharmacology C27
 Political Science C20
 Psychology F23
 Public Affairs Unit C22
 Regional Teacher Training Centre C27
 Russian C20
 Science and Mathematics Course
 Office F23
 Social Work G2
 Sociology C20
 Spanish and Latin American Studies C20
 Sport and Recreation E4
 Student Counselling and Research F15
 Student Health F15
 Student Records C22
 Students' Union E4 and C21
 Surveying K17
 Tertiary Education Research Centre E15d
 Textile Technology G14
 Theatre Studies B10
 Town Planning K15
 University Archives C22
 University Press A28
 University Union (Blockhouse) G6
 Wool and Pastoral Sciences B8a
 Zoology D26

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CHILD CARE CENTRE

MAX. SPEED 25 Kph
PARKING PERMITTED
ONLY IN AREAS MARKED (P)

