How to use this Handbook

The information in this book has been divided into seven parts.

**General Information** (the blue coloured pages) 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 each school in the faculty.

**Graduate Study** is about higher degrees.

**Subject Descriptions** lists each subject offered by the schools in the faculty. The schools are listed alphabetically.

Information includes:
- Subject number, title and description
- Prerequisite, co-requisite and excluded subjects, where applicable
- Additional information about the subject such as unit values, credit hours, teaching hours per week, sessions when taught

**Financial Assistance to Students** is a list of scholarships and prizes, available at undergraduate and graduate level in the faculty.

**Staff** list.

For detailed reference, see the list of Contents.
The address of the University of New South Wales is:

PO Box 1, Kensington, New South Wales, Australia 2033

Telephone: (02) 663 0351

Telegraph: UNITECH, SYDNEY

Telex AA26054

The University of New South Wales Library has catalogued this work as follows:

UNIVERSITY OF NEW SOUTH WALES — Faculty of Professional Studies
Handbook.
Annual. Kensington.
1968 +

University of New South Wales — Faculty of Professional Studies — Periodicals
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 or 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 11 September 1978, but may be amended without notice by the University Council.

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<td>Graduate</td>
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<td>School of Health Administration</td>
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<td>Undergraduate</td>
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<tr>
<td>Graduate</td>
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<tr>
<td>School of History and Philosophy of Science</td>
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<tr>
<td>School of Librarianship</td>
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<tr>
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<td>School of Metallurgy</td>
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<td>School of Microbiology</td>
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<tr>
<td>Department of Organizational Behaviour</td>
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<td>School of Philosophy</td>
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<td>School of Physics</td>
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<td>School of Physiology</td>
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<tr>
<td>School of Physiology and Pharmacology</td>
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<tr>
<td>School of Psychology</td>
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<tr>
<td>School of Social Work</td>
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<tr>
<td>School of Sociology</td>
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<td>School of Zoology</td>
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<td>Financial Assistance to Students</td>
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<td>Scholarships</td>
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<td>Undergraduate</td>
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<tr>
<td>Undergraduate</td>
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<tr>
<td>Graduate</td>
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<tr>
<td>Staff</td>
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</tbody>
</table>
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. The 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 the University and its activities you should consult the University Calendar.

Now, see the following pages for other general information which may be of value to you.

Some people who can help you

Note: All phone numbers below are University extension numbers. If you are outside the University, dial 6630351 and ask for the extension or dial 662— and then the extension number. This prefix should only be used when you are certain of the extension that your require. Callers using 662 cannot be transferred to any other number.

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 Deputy Registrar (Student Services), Mr Peter O'Brien and his Administrative Assistant, Mrs Anne Beaumont, are located on the first floor of the Chancellery. They will help students who need advice and who have problems and are not sure whom they should see. As well as dealing with general enquiries they are especially concerned with the problems of physically handicapped and disabled students and those in need of financial assistance. The latter students should see Mrs Beaumont. Enquire at room 148E, phone 2482 (general enquiries) or 3164 (financial assistance).

The Officer-in-Charge (Admissions and Higher Degrees Section), Mr Peter Wildblood, is located on the ground floor of the Chancellery. General enquiries should be directed to 3711.

The Officer-in-Charge (Examinations and Student Records Section) Mr Ross Woodham is located on the ground floor of the Chancellery. For particular inquiries regarding the Student Records Unit, including illness and other matters affecting performance in examinations, academic statements, graduation ceremonies, prizes, release of examination results and variations to enrolment programs, phone 3711. For information regarding examinations, including examination timetables and clash of examinations, phone 2143.
The Adviser for Prospective Students, Mrs. Fay Lindsay, is located on the ground floor of the Chancellery and is available for personal interview. For an appointment phone 3453.

The Assistant Registrar (Student Employment and Scholarships), Mr. Jack Foley, is located on the ground floor of the Chancellery. Enquiries should be directed to 2086 (undergraduate scholarships), 2525 (graduate scholarships), and 3259 (employment).

The Housing Officer, Mrs. Judy Hay, is located in the Student Amenities and Recreation Unit in Hut B at the foot of Basser Steps. For assistance in obtaining suitable lodgings phone 3260.

The Student Health Unit is located in Hut E on College Road. The Director is Dr. Max Napthali. For medical aid phone 2679 or 3275.

The Student Counselling and Research Unit is located at the foot of Basser Steps. The Head is Mr. George Gray. For assistance with educational or vocational problems ring 3881, 3665 or 2696 for an appointment.

The University Librarian is Mr. Allan Horton. Library enquiries should be directed to 2048.

The Chaplaincy Centre is located in Hut F at the foot of Basser Steps. For spiritual aid phone Anglican—2684; Catholic—2379; Church of Christ—2683; The Uniting Church—2683; Seventh Day Adventist—2683; Jewish—3273; Baptist—398 4065.

The Students' Union is located on the second floor of Stage III of the University Union, where the SU full-time President, Education Vice-President, Welfare-Research Officer, and Director of Overseas Students are available to discuss any problems you might have. In addition the SU offers a range of diverse services including legal advice (full-time solicitor available), clubs and societies services, second-hand bookshop (buy or sell), new records/tapes at discount, food shop (The Nuthouse), a professional nursery-kindergarten (House at Pooh Corner), a typesetting service, electronic calculators (bulk purchasing), AUS insurance (including health), an information referral centre (the Infakt Bus), a bail fund and publications such as Tharunka, Orientation Magazine, Concessions Book and counter-course handbooks. For information about these phone 2929.

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 five 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.

1979

Session 1 (14 weeks)

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 March</td>
<td>examinations begin</td>
</tr>
<tr>
<td>12 November</td>
<td>examinations end</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 March</td>
<td>10 Macy to 13 May</td>
</tr>
<tr>
<td>15 May</td>
<td>May Recess: 14 May to 20 May</td>
</tr>
<tr>
<td>21 May</td>
<td>21 May to 17 June</td>
</tr>
<tr>
<td>19 June</td>
<td>Midyear recess: 18 June to 22 July</td>
</tr>
<tr>
<td>4 July</td>
<td>Examinations begin</td>
</tr>
<tr>
<td>12 November</td>
<td>Examinations end</td>
</tr>
</tbody>
</table>

Session 2 (14 weeks)

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>23 July</td>
<td>examinations begin</td>
</tr>
<tr>
<td>12 December</td>
<td>examinations end</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>23 July</td>
<td>23 July to 26 August</td>
</tr>
<tr>
<td>27 August</td>
<td>August Recess: 27 August to 2 September</td>
</tr>
<tr>
<td>3 September</td>
<td>3 September to 4 November</td>
</tr>
<tr>
<td>5 November</td>
<td>Study Recess: 5 November to 11 November</td>
</tr>
</tbody>
</table>

January

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Monday</td>
<td>New Year's Day — Public Holiday</td>
</tr>
<tr>
<td>5 Friday</td>
<td>Last day for application for review of results of annual examinations</td>
</tr>
<tr>
<td>12 Friday</td>
<td>Last day for acceptance of applications by Admissions Office for transfer to another course within the University</td>
</tr>
<tr>
<td>29 Monday</td>
<td>Australia Day — Public Holiday</td>
</tr>
</tbody>
</table>

February

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Monday</td>
<td>Enrolment period begins for new students and students repeating first year</td>
</tr>
<tr>
<td>19 Monday</td>
<td>Enrolment period begins for second and later year students</td>
</tr>
<tr>
<td>Date</td>
<td>Event</td>
</tr>
<tr>
<td>-----------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>March 5</td>
<td>Session 1 commences</td>
</tr>
<tr>
<td>March 6</td>
<td>List of graduands for April/May ceremonies published in daily press</td>
</tr>
<tr>
<td>March 30</td>
<td>Last day for acceptance of enrollment by students re-enrolling in second and later years (late fee payable)</td>
</tr>
<tr>
<td>March 30</td>
<td>Last day for students other than those attending the University for the first time to discontinue without failure subjects which extend over Session 1 only</td>
</tr>
<tr>
<td>April 6</td>
<td>Confirmation of Enrolment forms despatched to all students</td>
</tr>
<tr>
<td>April 13</td>
<td>Easter</td>
</tr>
<tr>
<td>April 16</td>
<td>Last day for acceptance of corrected Confirmation of Enrolment forms</td>
</tr>
<tr>
<td>April 20</td>
<td>Anzac Day — Public Holiday</td>
</tr>
<tr>
<td>April 27</td>
<td>Last day for students attending the University for the first time to discontinue without failure subjects which extend over Session 1 only</td>
</tr>
<tr>
<td>May 7</td>
<td>Last day for students completing requirements for degrees or diplomas at the end of Session 1 to submit Application for Admission to Degree</td>
</tr>
<tr>
<td>May 14</td>
<td>May Recess begins</td>
</tr>
<tr>
<td>May 17</td>
<td>Publication of provisional timetable for June/July examinations</td>
</tr>
<tr>
<td>May 18</td>
<td>Last day for students other than those attending the University for the first time, to discontinue without failure subjects which extend over the whole academic year</td>
</tr>
<tr>
<td>May 20</td>
<td>May Recess ends</td>
</tr>
<tr>
<td>May 25</td>
<td>Last day for students to advise of examination timetable clashes</td>
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<td>June 5</td>
<td>Publication of timetable for June/July examinations</td>
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<td>June 17</td>
<td>Session 1 ends</td>
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<tr>
<td>June 18</td>
<td>Queen's Birthday — Public Holiday</td>
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<td>June 19</td>
<td>Midyear Recess begins</td>
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<tr>
<td>June 23</td>
<td>Examinations begin</td>
</tr>
<tr>
<td>July 4</td>
<td>Examinations end</td>
</tr>
<tr>
<td>July 13</td>
<td>Examination results mailed to students</td>
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<td>July 16</td>
<td>Examination results displayed on University notice boards</td>
</tr>
<tr>
<td>July 17</td>
<td>Students to amend enrolment programs following receipt of June exam examination results</td>
</tr>
<tr>
<td>August 2</td>
<td>Foundation Day (No classes held)</td>
</tr>
<tr>
<td>August 3</td>
<td>Last day for students attending the University for the first time to discontinue without failure subjects which extend over the whole academic year</td>
</tr>
<tr>
<td>August 17</td>
<td>Last day for students, other than those attending University for the first time, to discontinue without failure subjects which extend over Session 2 only</td>
</tr>
<tr>
<td>August 27</td>
<td>August Recess begins</td>
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<tr>
<td>September 2</td>
<td>Last day for applications from students completing requirements for degrees and diplomas at the end of Session 2 to submit Application for Admission to Degree</td>
</tr>
<tr>
<td>September 10</td>
<td>List of graduands for October graduation ceremony published in daily press</td>
</tr>
<tr>
<td>September 12</td>
<td>Last day for students attending the University for the first time to discontinue without failure subjects which extend over Session 2 only</td>
</tr>
<tr>
<td>September 17</td>
<td>Confirmation of Enrolment form forwarded to all students</td>
</tr>
<tr>
<td>September 20</td>
<td>Last day to notify intention of attending October graduation ceremony</td>
</tr>
<tr>
<td>October 1</td>
<td>Last day to apply to MUAC for transfer to another University in New South Wales</td>
</tr>
<tr>
<td>October 12</td>
<td>Eight Hour Day — Public Holiday</td>
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<tr>
<td>October 23</td>
<td>Last day to return corrected Confirmation of Enrolment forms</td>
</tr>
<tr>
<td>November 4</td>
<td>Session 2 ends</td>
</tr>
<tr>
<td>November 5</td>
<td>Study Recess begins</td>
</tr>
<tr>
<td>November 11</td>
<td>List of graduands for October graduation ceremony published in daily press</td>
</tr>
<tr>
<td>November 12</td>
<td>Study Recess ends</td>
</tr>
<tr>
<td>November 14</td>
<td>Examinations begin</td>
</tr>
</tbody>
</table>
In 1978 the University had 18,562 students and over 4,000 staff who worked in more than eighty buildings. These figures include staff and students at Broken Hill (W.S. and L.B. Robinson University College), Duntroon (the Faculty of Military Studies) and Jervis Bay.

**Arms of the University of New South Wales**

The coat of arms of the University is reproduced on the front cover of this handbook. The arms were granted by the College of Heralds in London, on 3 March 1952, and its 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’, which is the motto of the Sydney Technical College, from which the University has developed. The motto in 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 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 43 members from the State Parliament, industry and commerce, agriculture, the trade unions, professional bodies, the staff, the students and the graduates of the University.

The Council meets six 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, and the Deputy Chancellor is Dr F.M. Mathews.

**The Professorial Board**

The Professorial Board is one of the two chief academic units within the University and includes all the professors from the various faculties. 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 these and similar matters are presented to Council for its consideration and adoption.

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**1980**

<table>
<thead>
<tr>
<th>Session 1</th>
<th>3 March to 11 May</th>
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<tbody>
<tr>
<td></td>
<td>May Recess: 12 May to 18 May</td>
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<td></td>
<td>19 May to 15 June</td>
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<tr>
<td>Tuesday 17 June</td>
<td>Examinations begin</td>
</tr>
<tr>
<td>Wednesday 2 July</td>
<td>Examinations end</td>
</tr>
<tr>
<td>Session 2</td>
<td>Midyear Recess: 16 June to 20 July</td>
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<td></td>
<td>August Recess: 25 August to 30 August</td>
</tr>
<tr>
<td></td>
<td>1 September to 2 November</td>
</tr>
<tr>
<td>Monday 10 November</td>
<td>Examinations begin</td>
</tr>
<tr>
<td>Saturday 29 November</td>
<td>Examinations end</td>
</tr>
<tr>
<td>January Tuesday 1</td>
<td>Public Holiday</td>
</tr>
<tr>
<td>Friday 4</td>
<td>Last date for application for review of results of annual examinations</td>
</tr>
<tr>
<td>Friday 11</td>
<td>Last day for acceptance of applications by Admissions Office for transfer to another course within the University</td>
</tr>
<tr>
<td>Monday 28</td>
<td>Australia Day — Public Holiday</td>
</tr>
<tr>
<td>February Monday 4</td>
<td>Enrolment period begins</td>
</tr>
</tbody>
</table>

**Organization of the University**

Rapid development has been characteristic of the University of New South Wales since it was first incorporated by an Act of Parliament in 1949, under the name of the New South Wales University of Technology.
The Faculties/Boards of Study

The Dean, who is also a professor, is the executive head of the Faculty or Board of Study. Members of each Faculty or Board meet regularly to consider matters pertaining to their own areas of study 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 eleven Faculties are Applied Science, Architecture, Arts, Biological Sciences, Commerce, Engineering, Law, Medicine, Military Studies, Professional Studies and Science together with the Australian Graduate School of Management. In addition, the Board of Studies in General Education fulfils 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 course.

The Schools

Once courses of study have been approved they come under the control of the individual Schools (eg the School of Chemistry, the School of Mathematics). 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 Rupert Myers, 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: Professor John Thornton, Professor Rex Vowels and Professor Raymund Golding; the Deans and the three heads of the administrative divisions.

General Administration

The administration of general matters within the University comes mainly within the province of the Registrar, Mr Keith Jennings, the Bursar, Mr Tom Daly, and the Business Manager (Property), Mr R.K. Fletcher.

The Registrar's Division is concerned chiefly with academic matters such as the admission of students, and the administration of examinations as well as the various student services (health, employment, amenities and counselling).

The Bursar’s Division is concerned with the financial details of the day-to-day administration and matters to do with staff appointments, promotions, etc.

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 for election to the Committees of Council 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/Board. Elections are for a one-year term of office.

Open Faculty/Board Meetings

If you wish you may attend a Faculty/Board meeting, you should seek advice at the office of the Faculty whose meeting you wish to attend, as different faculties have their own rules for the conduct of open meetings.

Award of the University Medal

The University may award a bronze medal to undergraduate students who have achieved highly distinguished merit on completion of their final year.

Identification of Subjects by Numbers

For information concerning the identifying number of each subject taught in this 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 no longer published in the Faculty handbooks. Separate lists are issued prior to the beginning of each session and are available at key points on the campus.

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 3476.
Student Services and Activities

The University Library

The University Libraries are mostly situated on the upper campus. The library buildings house the Undergraduate Library on Level 3, the Social Sciences and Humanities Library on Level 4, the Physical Sciences Library, on Level 7 and the Law Library on Level 8. 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.

There are also library services at other centres:

- The Water Reference Library situated at Manly Vale (Phone 948.0261) which is closely associated with the Physical Sciences Library.
- The library at the Broken Hill Division in the W.S. and L.B. Robinson University College building, Phone Broken Hill (080) 6022.
- The library at the Royal Military College, Duntroon, ACT, serving the Faculty of Military Studies. Phone (062) 730427.

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 day and evening periods. The exact hours of opening vary during the course of the academic year.

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

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 450 men and women students, as well as staff members. Fees are payable on a session basis. Apply in writing to the Master, PO Box 24, Kensington, NSW 2033.

International House
International house accommodates 154 students from Australia and up to twenty other countries. Preference is given to more senior undergraduates and graduate students. Apply in writing to the Warden, International House, PO Box 88, Kensington, NSW 2033.

New College
This Church of England College is open to all students without regard to race or religion. It has accommodation for approximately 220 students and is co-educational. Enquiries should be addressed to the Master, New College, Anzac Parade, Kensington, NSW 2033.

Shalom College
Shalom College 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. 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 200 men and is open to students of all ages, backgrounds and beliefs. A comprehensive tutorial program is offered along with a wide variety of activities and opportunities to meet informally with members of the University staff. Non-resident membership is available to male students who wish to participate in College activities and make use of its facilities. Warrane is directed by the International Catholic lay association Opus Dei. Apply in writing to the Master, Warrane College, PO Box 123, Kensington, NSW 2033.

Creston Residence
Creston, associated with Warrane College, offers residence for 25 full-time undergraduate and graduate women students of all nationalities and denominations. It is directed by the Women’s Section of Opus Dei, a Catholic lay association. Further information: The Principal, 36 High Street, Randwick, NSW 2031.

Other Accommodation

Off-campus Accommodation
Students requiring other than College accommodation may contact the Housing Officer in the Student Amenities and Recreation Unit for assistance in obtaining suitable lodging in the way of full board, room 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.

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, list of estate agents and hints on house-hunting are available on request.
Student Employment and Scholarships

The Student Employment and Scholarships Unit offers assistance with career employment for final year students and graduates of the University. This service includes the mailing of regular job vacancy notices to registered students, and a Careers Library containing information on various careers and employers.

Careers advice and assistance are also available to undergraduates. Students undertaking courses in Applied Science or Engineering which require course-related industrial or professional training experience are assisted to find such employment over the long vacation. Information and advice regarding cadetships, undergraduate and graduate scholarships is also available.

The service is located in Room G19 of the Chancellory.

Phone extension 3259 for employment and careers advice, extension 2625 for details of graduate awards and grants, and extension 2086 for undergraduate scholarship, cadetship and industrial training information.

Student Health

A student health clinic and first aid centre is situated within the University. It is staffed by three qualified medical practitioners, assisted by two nursing sisters. The medical service, although therapeutic, is not intended to entirely 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 for specialist opinion and/or treatment. 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 as well as first aid service in the case of injury or illness on the campus are available.

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

Appointments may be made by calling at the centre or by telephoning extension 2679 or 3275 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. These clinics are open to staff and students and appointments may be made for the Student Health Unit clinic by telephoning 6989499, or for The Prince of Wales Hospital clinics by telephoning 3990111.

Student Counselling and Research

The Student Counselling and Research Unit provides individual and group counselling for all students—prospective, established and graduate. Opportunities are provided for parents and others concerned with student progress to see members of the counselling staff.

The service which is free, informal and personal is designed to help students with planning and decision making, and a wide variety of concerns and worries which may be affecting personal, educational and vocational aspects of their lives.

The Unit pursues research into factors affecting student performance, and the published results of its research and experience are helpful in improving University and other counselling services, and the quality of student life.

Counselling appointments may be arranged during sessions and recesses between 9 am and 7 pm. Phone 6630351, extension 3681, 3685 and 2696, or call at the Unit which is located at the foot of Basser Steps. Urgent interviews are possible on a walk-in basis between 9 am and 5 pm. Group counselling programs are offered both day and evening between 9 am and 9 pm by special arrangement. Self-help programs are arranged to suit the student's time and convenience.

Student Amenities and Recreation

In general the Student Amenities and Recreation Unit seeks ways to promote the physical, social and educational development of students through their leisure time activities and to provide some services essential to their day-to-day University life.

The Unit provides, for example, a recreational program for students and staff at the Physical Education and Recreation Centre; negotiates with the Public Transport Commission of NSW on student travel concessions and supplies concession forms for bus, rail, ferries and planes; assists students with off-campus housing; makes bookings for use of sports facilities; and, in consultation with the Sports Association, assists various recognized clubs.

The Unit is located in Hut B at the foot of Basser Steps. The various services may be contacted by phone on the following extensions: Recreation Program 3271; Travel 2617; Accommodation 3260; Ground Bookings 2235; Sports Association 2673.

Physical Education and Recreation Centre

The Student Amenities and Recreation Unit provides a recreational program for students and staff at the Physical Education and Recreation Centre. The Centre consists of eight
squash courts and a main building, the latter containing a large gymnasium and practice rooms for fencing, table tennis, judo, weight-lifting, karate and jazz ballet, also a physical fitness testing room. The recreational program includes intramurals, teaching/coaching, camping, and fitness testing. The Centre is located on the lower campus adjacent to High Street. The Supervisor at PERC may be contacted on extension 3271.

The Sports Association

The Sports Association caters for a variety of competitive sports for both men and women. Membership is compulsory at $6 per year for all registered students and is open to all members of staff and graduates of the University.

The Sports Association office is situated in Hut G, near the bottom of Basser Steps, and the control of the Sports Association is vested in the General Committee. The Executive Officer of the Sports Association may be contacted on extension 2673.

Student Travel Concessions

The Student Amenities and Recreation Unit arranges distribution of bus, rail and ferry concessions. For the peak period during the week preceding and the first week of Session 1 distribution is at a location to be decided. Students should watch for notices around the campus announcing the distribution centre.

For the rest of the year students seeking authorization for travel concessions, including planes, should enquire at SARU, Hut B, (extension 2617) or the Enquiry Desk, Chancellery, (extension 2251).

The University Union

The University Union provides the facilities students, staff and graduates require in their daily University life and thus an opportunity for them to know and understand one another through associations outside the lecture room, the library and other places of work.

The Union is housed in three buildings near the entrance to the Kensington Campus from Anzac Parade. These are the Roundhouse, The Blockhouse (Stage 2) and the Squarehouse (Stage 3). Membership of the Union is compulsory at $45 per year for all registered students and is open to all members of staff and graduates of the University.

The full range of facilities provided by the Union includes a cafeteria service and other dining facilities, a large shopping centre, cloak room, banking and hairdressing facilities, showers, a women's lounge, common, games, reading, meeting, music, practice, craft and dark rooms. Photocopying, sign printing, and stencil cutting services are also available. The Union also sponsors special concerts (including lunchtime concerts) and conducts courses in many facets of the arts including weaving, photography, creative dance and yoga. Exhibitions are held in the John Clark Gallery.

Full information concerning courses is contained in a booklet obtainable from the Union's Program Department.

The University Union should not be confused with the Students' Union or Students' Representative Council (as it is known in some other universities). This latter body has a representative function and is the instrument whereby student attitudes and opinions are crystallized and presented to the University and the community.

The Students' Union

The Students' Union is run by students and represents them on and off campus. Presidential elections are by popular vote and all students who have completed two years at the University are eligible for election. The full-time President directs the entire administration of the Students' Union and its activities.

Other full-time officers include the Education Vice-President who works towards the implementation of Students' Union education policy; the Welfare-Research Officer concerned with helping students with problems they may encounter in the University; Director of Overseas Students who deals with specific problems these students may encounter while in Australia.

Membership is compulsory at $14 per annum for full-time students and $11 for part-time students.

The activities of the Students' Union include:
1. Infakt: a student-run information referral service. If you want someone to talk to or need help of any kind see the people at Infakt located in the bus at the foot of Basser Steps.
2. A casual employment service.
3. Organization of Orientation Week.
4. Organization of Foundation Day.
6. Publication of the student paper Tharunka.
7. A free legal service run by a qualified lawyer employed by the Students' Union Council.
8. Students' Union Record Shop which sells discount records and tapes.
9. The Nuthouse which deals in bulk and health foods.
10. Secondhand Bookshop for cheap texts.
11. Clubs and societies which receive money from the Students' Union through CASOC (Clubs and Societies on Campus).
12. The sale of electronic calculators and accessories at discount rates.

* Subject to revision at time of publication.
The Students' Union is affiliated with the Australian Union of Students (AUS) which represents students on the national level.

The Students' Union is located on the second floor, Stage 3, the Union.

**Chaplaincy Centre**

This service is provided for the benefit of students and staff of various religious and spiritual beliefs. Chaplains are in attendance at the University at regular times. A Chapel is also available for use by all denominations. For further details, turn to page 2.

**Other Services and Activities**

CASOC: All clubs and societies on campus (except sporting clubs) are loosely organized under the umbrella of CASOC, which is a committee of the Students' Union. Some of these clubs are the Motor Cycle Club; Chess Club; Dramsoc; Opunka; Kite Club and the Jazz Society.

School and Faculty Associations: Many schools and faculties have special clubs with interests in particular subject fields. Enquire at your Faculty Office for information.

University Co-operative Bookshop Limited: Membership is open to all students, on initial payment of a fee of $10, refundable when membership is terminated. Members receive an annual rebate on purchases of books.

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 notice boards for details.

**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
- Master's qualifying courses (one year)

**Benefits**

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

1978 Higher School Certificate candidates and tertiary students receiving an allowance are sent forms in December/January. Other students may obtain forms from the Admissions Section or Student Employment and Scholarships Unit, or from the Regional Director, Department of Education, 323 Castlereagh Street, Sydney, NSW 2000 (phone 2188800).

Continuing students should submit application as soon as examination results are available. New students should do so as soon as they are enrolled. All students should apply by 31 March 1979, otherwise benefits will not be paid for the earlier months of the year.

**Scholarships, Cadetships, Prizes**

1. Undergraduate Scholarships: In addition to finance provided under the Commonwealth Government's Tertiary Education Assistance Scheme there are a number of scholarships, cadetships, prizes and other forms of assistance available to undergraduate students. Details of procedures for application for these awards are contained in the Calendar.

There are also special scholarships not administered by the University, information about which may be obtained from the School office.

Further information and advice regarding scholarships is available from the Student Employment and Scholarships Unit in the Chancellery Building.
2. Graduate Awards
An honours degree is generally an essential requirement for gaining one of the many graduate scholarships which are available at the University. Therefore gifted students should not neglect the opportunity to qualify for honours and thus become eligible for an award.

Details of graduate awards are contained in the University Calendar.

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Other Financial Assistance

In addition to the Tertiary Education Assistance Scheme financed by the Commonwealth 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 the Students' Union, the University Union and other sources have made funds available for urgent cash loans not exceeding $100. These loans are normally repayable within one month.

3. **Early in 1973 the Commonwealth Government 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. Repayment usually commences after graduation or upon withdrawal from the course. 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.**

   From the same source, students who are in extremely difficult financial circumstances may apply for assistance by way of a non-repayable 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.

   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 the Deputy Registrar (Student Services), Room 148E, in the Chancellery.

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Financial Assistance to Aboriginal Students

Financial assistance is available to help Aboriginal students from the Australian Government's Aboriginal Study Grant Scheme. Furthermore, the University may assist Aboriginal students with loans to meet some essential living expenses.

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Fund for Physically Handicapped and Disabled Students

The University has a small fund (started by a generous gift from a member of the staff who wishes to remain anonymous) available for projects of benefit to handicapped and disabled students. Enquiries should be made at the office of the Deputy Registrar (Student Services), Room 148E, in the Chancellery.

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Rules and Procedures

The University, in common with other large organizations, has some agreed ways of doing things in order to operate for the benefit of all members. The rules and procedures listed below will affect you at some time or another. In some cases there are penalties (e.g., fines or exclusion from examinations) for failure to observe these procedures and therefore they should be read with care.

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Admission

Where can I get information about admission?

The Admission Office, located in the Chancellery on the upper campus, provides information for students on admission requirements, undergraduate and graduate courses and enrolment procedures. The Admission Office is open from 9 am to 5 pm Monday to Friday (excluding the lunch hour 1 pm to 2 pm). During enrolment the office is also open for some part of the evening.

The Office provides information about special admission (including mature age entry), admission with advanced standing and admission on overseas qualifications. The Office also receives applications 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. It is essential that the closing dates for lodgment of applications are adhered to. For further details see the sections below on Enrolment and Fees.

Applications for admission to undergraduate courses from students who do not satisfy the requirements for admission (see section on Admission Requirements in the Calendar), from
students seeking admission with advanced standing, or from students who have a record of failure at another university, are referred by the Admissions Office to the Admissions Committee of the Professorial Board.

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

Details of the procedure to be followed by students seeking entry to first year undergraduate degree courses at the university may be obtained from the Admissions Office or the Metropolitan Universities Admissions Centre.

How do I qualify for admission?

In order to enter an undergraduate course you must qualify for matriculation to the University, and be selected for admission to the faculty or course you wish to enter. Full details of matriculation and admission requirements are contained in a pamphlet obtainable at the Admissions Office and in the Calendar.

Enrolment

How do I enrol?

All students, except those enrolling in graduate research degrees (see below), must lodge an authorized enrolment form with the Cashier on the day the enrolling officer signs the form or on the day their General Studies electives are approved if their course requires this.

All students, except those enrolling in graduate research degrees and those exempted (see below), should on that day either pay the required fees or lodge an enrolment voucher or other appropriate authority.

What happens if I am unable to pay fees at the time of enrolment?

If you are unable to pay fees by the due date you may apply in writing to the Deputy Registrar (Student Services) for an extension of time, which may be granted in extenuating circumstances.

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 that time (see Fees below). Payment may be made through the mail in which case it is important that the student registration number be given accurately.

New Undergraduate Enrolments

Persons who are applying for entry in 1979 must lodge an application for selection with the Metropolitan Universities Admissions Centre, PO Box 7049, GPO, Sydney 2001, by 3 October 1978.

Those who are selected will be required to complete enrolment at a specified appointment time before the start of Session 1. Compulsory fees must be paid on the day of the appointment. In special circumstances, however, and provided class places are still available, students may be allowed to complete enrolment after the prescribed week, subject to the payment of a penalty (see page 15).

Application forms and details of the application procedures may be obtained from the Admissions Office.

Re-enrolment

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 Admissions Office and from School offices. Those who have completed part of a course and have been absent without leave need to apply for entry through the Metropolitan Universities Admissions Centre, PO Box 7049, GPO, Sydney 2001, by 3 October 1978.

Restrictions Upon Re-enrolling

Students enrolled in the first year of any undergraduate course in the University who failed more than half their program in 1978; students who have failed more than once a subject prescribed as part of their course; and students required by the Re-enrolment Committee to show cause should not attempt to re-enrol but should follow the written instructions they will receive from the Registrar.

For the purpose of calculating a student’s program, all subjects taken during the year, including repeat subjects, are counted.

Miscellaneous Subject Enrolments

Students may be permitted to enrol for miscellaneous subjects (ie as students not proceeding to a degree or diploma) provided the Head of the School offering the subject considers it will be of benefit and there is accommodation available. Only in exceptional cases will subjects taken in this way count towards a degree or diploma. Students who are under exclusion may not be enrolled in miscellaneous subjects which may be counted towards courses from which they have been excluded.

Students seeking to enrol in miscellaneous subjects should obtain a letter of approval from the Head of the appropriate School or his representative permitting them to enrol in the subject concerned. The letter should be given to the enrolling officer at the time of enrolment.

For details of the locations and hours for enrolment see Enrolment Procedures 1979, a free booklet obtainable from your School or Faculty Office or from the Admissions Office.
Final Dates for Completion of Enrolments

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 (16 March 1979) except with the express approval of the Deputy Registrar (Student Services) 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 (30 March 1979) except with the express approval of the Deputy Registrar (Student Services) and the Heads of Schools concerned. No enrolments for courses in Session 2 only will be accepted after the end of the second week of Session 2 (3 August 1979) except with the express approval of the Deputy Registrar (Student Services) and the Heads of Schools concerned.

Can I transfer from one course to another?

To transfer from one course to another you must apply on an application form obtainable from the Admissions Office by 17 January. If your application is successful you are required to comply with the enrolment procedures for the year/stage of the new course and, unless otherwise instructed, you should present the letter granting transfer to the enrolling officer. If you intend to transfer, you should also inform the enrolling officer of the school in which you were enrolled in 1978.

Can I change my course program?

If you wish to seek approval to substitute one subject for another, or add one or more subjects to your program or discontinue part or all of your program, you must make application to the Registrar through the Head of the School responsible for the course on forms available from School offices or at the Enquiry Desk in the main entrance of the Chancellery. The Registrar will inform you of the decision. Application to enrol in additional subjects must be submitted by 30 March 1979 for Session 1 only and Whole Year subjects and by 17 August 1979 for Session 2 only subjects.

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.

How do assisted students (eg scholarship holders) enrol?

Scholarship holders or sponsored students who have an enrolment voucher or letter of authority from their sponsor should present it at the time of enrolment. 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 must pay the 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.

Withdrawal from courses and subjects

Courses
1. Students withdrawing from courses (see also Subjects, below) are required to notify the Registrar in writing.

For details see the Calendar.

Subjects
2. Students are permitted to withdraw from subjects without being regarded as having failed, provided they apply by the dates indicated.

Students enrolled in the University for the first time (in any undergraduate course):

1. for one session subjects, the end of the eighth week of that session (27 April or 14 September)
2. for whole year subjects the end of the second week of Session 2 (3 August)

Students who have been enrolled in the University prior to 1979:

1. for one session subjects, the end of the fourth week of that session (30 March or 17 August)
2. for whole year subjects, the end of the eleventh week of Session 1 (18 May)

What special rules apply

If I wish to be considered for admission with advanced standing?

If you make application to register as a candidate for any degree or other award granted by the University you may be admitted to the course of study with such standing on the basis of previous attainments as may be determined by the Professorial Board. For complete details regarding ‘Admission with Advanced Standing’ consult the University Calendar.

How do I enrol after an absence of twelve months or more?

If you have had an approved leave of absence for twelve months or more and wish to resume your course you should follow the instructions about re-enrolling given in the letter granting your leave of absence. If you do not fully understand or have lost these instructions, then you should contact the Admissions Office before November in the year preceding the one in which you wish to resume your course.
If you have not obtained a leave of absence from your course and have not been enrolled in the course over the past twelve months of more, then you should apply for admission to the course through the Metropolitan Universities Admission Centre before October in the year preceding that in which you wish to resume studies.

Are there any restrictions upon students 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-enroll and retain valuable class places.

First-year Rule

1. A student enrolled in the first year of any undergraduate course of study in the University as set out in the relevant faculty handbook shall be required to show cause why he/she should be allowed to continue the course if he/she fails more than half the program in which he/she is enrolled. In order that students may calculate half their program, the weighting of subjects in each course is defined in Schedule A," which may be varied from time to time by the Professorial Board.

Repeated-failure Rule

2. A student shall be required to show cause why he/she should be allowed to repeat a subject which that student has failed more than once. Where the subject is prescribed as part of the student's course he/she shall also be required to show cause why he/she should be allowed to continue that course.

General Rule

3. A student shall be required to show cause if, in the opinion of the faculty or board of studies his/her academic record is such as to demonstrate the student's lack of fitness to pursue a subject or subjects and/or course or courses.

The Session-unit System

4. (1) A student who infringes the provision of Rules 1. or 2. at the end of Session 1 of any year will not be required to show cause at that time but 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 that course.

(2) Such a student will be required to show cause at the end of the year, except that a student who has infringed Rule 2. at the end of Session 1, repeats the subject(s) in question in Session 2, and passes it/them, will not be required to show cause on account of any such subject.

Exemption from Rules by Faculties

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

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

'Showing Cause'

6. (1) A student wishing to show cause must apply for special permission to re-enrol. Application should be made on the form available from the Examinations and Student Records Section 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 Re-enrolment Committee which shall determine whether the cause shown is adequate to justify the granting of permission to re-enrol.

Appeal

7. (1) Any student who is excluded by the Re-enrolment Committee from a course and/or subject(s) under the provisions of the Rules 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 he 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.

(2) The notification to any student of a decision by the Re-enrolment Committee to exclude him/her from re-enrolling in a course and/or subject(s) shall indicate that the student may appeal against that decision to the Appeal Committee. In lodging such an appeal with the Registrar the student should provide a complete statement of all grounds on which the appeal is based.

*For details of Schedule A see Restrictions upon Re-enrolling in the University Calendar.
(3) The Appeal Committee shall determine the appeal after consideration of the student's academic record, his/her application for special permission to re-enroll, and the stated grounds of appeal. In exceptional circumstances, the Appeal Committee may require the student to appear in person.

Exclusion

8. (1) A student who is required to show cause under the provisions of Rules 1, or 3, and either does not attempt to show cause or does not receive special permission to re-enroll from the Re-enrolment Committee (or the Appeal Committee on appeal) shall be excluded from re-enrolling in the subject(s) and course(s) on account of which he was required to show cause. Where the subjects failed are prescribed as part of any other course (or courses) he/she shall not be allowed to enroll in any such course.

(2) A student who is required to show cause under the provisions of Rule 2, and either does not attempt to show cause or does not receive special permission to re-enroll from the Re-enrolment Committee (or the Appeal Committee on appeal) shall be excluded from re-enrolling in any subject he/she has failed twice. Where the subject failed is prescribed as part of the student's course he/she shall also be excluded from that course. Where the subject failed is prescribed as part of any other course (or courses) he/she shall not be allowed to enroll in any such course(s).

(3) A student excluded from a course or courses under the provisions of (1) of (2) may not enrol as a miscellaneous student in subjects which may be counted towards any such course.

Re-admission after Exclusion

9. (1) An excluded student 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 Metropolitan Universities Admission Centre before the closing date for normal applications in the year prior to which re-admission is sought. Such applications will be considered by the Admissions Committee of the relevant Faculty or Board.

(b) An application for re-admission to a subject should be made to the Registrar before 30 November in the year prior to which re-admission is sought. Such applications will be considered by the relevant Head of School.

An application 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 an applicant's capacity to resume studies at the University.

Applications for re-admission to a course or subject that are unsuccessful [see 9. (2) (a) and (b) respectively] will be reconsidered automatically by the Re-enrolment Committee of the Professorial Board. The decision of the Committee will be final.

10. If students fail a subject at the examinations in any year or session and re-enrol in the same course in the following year or session they must include in their program 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.

How do I apply for admission to degree or diploma?

If your current program will enable you to complete all requirements for a degree or diploma, including industrial training where necessary, you should complete the form Application for Admission to a Degree by the dates shown in the Calendar of Dates and on the Notification of Examination Results. The forms are available from the Enquiry Counter at the Chancellery and will be mailed to all potential graduates.

The completion and submission of the form ensures that:

1. The correct spelling and sequence of names is recorded on the degree certificate. 2. Any previous academic qualifications are shown in the graduation ceremony program. 3. All correspondence relating to the ceremony is forwarded to the correct address. Note: If notifying change of address after the form has been submitted an additional form Final Year Students' Graduation: Change of Address should be submitted.

If you meet all the requirements, the degree or diploma will be conferred without the necessity for further action by you. Students should advise the Registrar, in writing, if they do not wish to have the degree or diploma conferred for any reason, including the decision to proceed to an honours degree. To ensure that the degree is not conferred advice should reach the Registrar no later than 24 July for students completing at the end of Session 1, and 24 February for those completing at the end of Session 2.

Fees

Fees and penalties quoted are current at the time of publication but may be amended by the University Council without notice.
Do I have to pay fees for tuition?
No tuition fees are charged.

What other fees and charges are payable?
There are other fees and charges which include those charges raised to finance the expenses incurred in operating student activities such as the University Union, the Students' Union, the Sports Association and the Physical Education and Recreation Centre. Penalties 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 which are lent to students for personal use during attendance in certain subjects. Accommodation charges, costs of subsistence on excursions, field work etc., and for hospital residence (medical students) are payable in appropriate circumstances.

How much is my contribution to student activities and services on campus?
All students (with the exceptions noted below) will be required to pay the following fees if enrolling for a program involving two sessions. Those enrolling for only one session will pay one-half of the Student Activities Fees, and the full University Union entrance fee, if applicable.

University Union Entrance Fee, payable on first enrolment $25

Student Activities Fees

- University Union, annual subscription $45
- Sport Association, annual subscription $6
- Students' Union
  - Students enrolling in full-time courses, annual subscription $14
  - Students enrolling in part-time courses and miscellaneous subjects, annual subscription $11
- Miscellaneous annual fee $25

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

Are fees charged for examinations?
Generally, there are no charges associated with examinations; however two special examination fees are applied:
- Examinations conducted under special circumstances—for each subject $11
- Review of examination result—for each subject $11

What penalties exist for late payment of fees?
The following additional charges will be made in 1979 when fees are paid late:
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.

Locations and Hours of Cashier
Cashier's Offices are open during the enrolment periods. Details of locations and hours are listed in Enrolment Procedures 1979, a free booklet obtainable from your School or Faculty Office or from the Admissions Office.

Who is exempt from payment of fees?
1. Life members of University Union, Sports Association, and Students' Union are exempt from the relevant fee or fees.
2. Students enrolled in courses classified as External are exempt from all Student Activities Fees and the University Union entrance fee.
3. University Union fees and subscriptions may be waived by the Deputy Registrar (Student Services) 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.
4. 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 in a miscellaneous subject or 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.
5. Undergraduate students of a recognized university outside Australia who attend the University of New South Wales with the permission of the Dean of the appropriate faculty and 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.
6. 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.
7. Graduate students resubmitting a thesis or project only are exempt from all Student Activities Fees.

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

Is exemption from membership possible?

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

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

Can I get an extension of time to pay?

If you apply before the due date and extenuating circumstances exist, an extension of time may be granted. Apply to the Deputy Registrar (Student Services).

How much will textbooks and special equipment (if any) cost?

You must 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 second-hand bookshop. Information about special equipment costs, accommodation charges and cost of subsistence on excursions, field work, etc, and for hospital residence (medical students) are available from individual schools.

Examinations

When are examinations held?

Examinations for Session 2 and for Full Year subjects are held in November/December. Examinations for Session 1 subjects are held during the Midyear Recess. Provisional timetables indicating the dates and times of examinations and notices of the location of examinations are posted on the University notice boards on the campus, including the Western Grounds Area. Final timetables indicating the dates, times, locations and authorized aids are available for students two weeks before the end of each session. You must advise the Examinations Unit (the Chancellery) of any clash in examinations. Details of dates are published in the Calendar of Dates (see pages 2-4 for May/June and October/November).

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

In the assessment of your progress in University courses, 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.

How are examination passes graded?

Passes are graded: High Distinction, Distinction, Credit and Pass. Satisfactory indicates the satisfactory completion of a subject for which graded passes are not available. A Pass Conceded may be granted to a student whose mark in a subject is slightly below the standard required for a pass but whose overall satisfactory performance warrants this concession. A Terminating Pass may be granted where the mark for the subject is below the required standard. A Terminating Pass will not permit a student to progress further in the subject or to enrol in any other subject for which a pass in the subject is a co-requisite or prerequisite. A student given a Terminating Pass may attempt a deferred examination, if available, to improve his performance but should he fail in such attempt, the Terminating Pass shall stand.

Will I receive any refund if I withdraw from a course?

Yes. The following rules apply:

1. If you withdraw from courses you are required to notify the Registrar in writing.
2. Where notice of withdrawal from a course is received by the Registrar before the first day of Session 1 a refund of all fees paid will be made. After that time only a partial refund will be made. See the Calendar for details.

What happens if I fail to pay the prescribed fees or charges?

If you fail to pay prescribed fees or charges or become otherwise indebted to the University and you fail to make a satisfactory settlement of your indebtedness upon receipt of due notice then you cease to be entitled to the use of University facilities. You will not be permitted to register for a further session, to attend classes or examinations, or be granted any official credentials. In the case of a student enrolled for Session 1 only or for Sessions 1 and 2 this disbarment applies if any portion of fees is outstanding after the end of the eighth week of Session 1 (27 April 1979). In the case of a student 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 (31 August 1979).
When are examination results available?

Final examination results will be posted to your term address (which can be altered up to 30 November) or to your vacation address (fill in a form obtainable at the Information Desk, Chancellery, also by 30 November). Results are also posted on School notice boards and in the foyer of the Sir John Clancy Auditorium. No examination results are given by telephone.

Can examinations results be reviewed?

Examination results may be reviewed for a fee of $11 a subject, which is refundable in the event of an error being discovered. This review consists mainly of ensuring that all questions attempted have been marked and of checking the total of the marks awarded. Applications for review must be submitted on the appropriate form to the Examinations and Student Records Section together with the necessary fee by the dates printed on the reverse side of Notification of Results.

Are allowances made if students are sick before or during an examination?

A student who through serious illness or other cause outside his control is unable to attend an examination is required to bring the circumstances (supported by a medical certificate or other evidence) to the notice of the Registrar not later than seven days after the date of the examination.

A student who believes that his performance in a subject has been affected by serious illness during the year or by other cause outside his control, and who desires these circumstances to be taken into consideration in determining his standing, is required to bring the circumstances (supported by a medical certificate or other evidence) to the notice of the Registrar as soon as the circumstances are known but not later than seven days after the date of the examination.

A student who attempts an examination, yet claims that his performance is prejudiced by sickness on the day of the examination must notify the Registrar or Examination Supervisor before, during, or immediately after the examination, and may be required to submit to medical examination.

When submitting a request for consideration candidates are required to give details of their registration number, address, course, specialization, year or stage, full or part-time and subject number, title and date of the examination affected.

A student suffering from a physical disability which puts him at a disadvantage in written examinations should apply to the Assistant Registrar, Examinations and Student Records Section (Ground Floor, the Chancellery) immediately the disability is known. If necessary, special arrangements will be made to meet the student's requirements.

Use of electronic calculators

Where the use of electronic calculators has been approved by a faculty or school, examiners may permit their use in examinations. Authorized electronic calculators are battery operated with the minimum operations of addition, subtraction, multiplication and division and are of a type in common use by university students. They are not provided by the University, although some schools may make them available in special circumstances.

Compulsory Industrial Training

Examinations including deferred 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 Unit, immediately the location of the industrial training is known. Special forms for this purpose are available at the Enquiry Desk, the Chancellery.

Arrival at Examinations

Examination rooms will be open to students 25 minutes before the commencement of the examination. Candidates are requested to be in their places at least 15 minutes before the commencement to hear announcements. The examination paper will be available for reading 10 minutes before commencement.

Use of Linguistic Dictionaries

All answers must be in English unless otherwise directed. Foreign students who have the written approval of the Assistant Registrar, Examinations and Student Records Section, may use standard linguistic dictionaries. Dictionaries should be presented for approval, not later than 14 days before the commencement of the examination period.

How are examinations conducted?

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 10 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. No candidate shall be admitted to an examination after 30 minutes from the time of commencement of the examination.
5. No candidate shall be permitted to leave the examination room before the expiry of 30 minutes from the time the examination commences.
6. No candidate shall be re-admitted to the examination room after he has left it unless during the full period of his absence he has been under approved supervision.
7. A candidate shall not by an improper means obtain, or endeavour to obtain, assistance in his work, give, or endeavour to give, assistance to any other candidate, or commit any breach of good order.
8. Smoking is not permitted during the course of examinations.
9. 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.

Abolition of Deferred Examinations
The system of formal deferred examinations administered by the Registrar's Division was abolished from 1 March 1978. Schools and Faculties may carry out whatever additional assessment may be considered appropriate, including assessment or additional assessment on medical or compassionate grounds.

Can I buy copies of previous examination papers?
Yes—for 5$ each from the University Union's Upper Campus Shop in the Commerce Building.

Essays

Should I list my sources?
Students are expected to acknowledge the sources of ideas and expression that they use in submitted work. To provide adequate documentation is not only and indication of academic honesty but also a courtesy enabling the marker to consult your sources with ease. Failure to do so may constitute plagiarism, which is subject to a charge of academic misconduct.

Student Conduct on Campus

Is there a detailed code of rules related to the general conduct of students?
No. The University has not considered it necessary to formulate a detailed code of rules relating to the general conduct of students.

Now that you have become a member of the University you should understand that this involves undertaking on your part to observe its rules, by-laws and other requirements, and to pay due regard to any instructions conveyed by any officer of the University.

What are the rules related to attendance at classes?
You are expected to be regular and punctual in attendance at all classes in the course or subject in which you are enrolled. All applications for exemption from attendance at lectures or practical classes must be made in writing to the Registrar.

In the case of illness or of absence for some other unavoidable cause you may be excused by the Registrar for non-attendance at classes for a period not more than one month or, on the recommendation of the Dean of the appropriate Faculty, for a longer period. Applications should be addressed to the Registrar and, where applicable, should be accompanied by a medical certificate. If assessment procedures have been missed, this should be stated in the application.

If you attend less than 80 per cent of possible classes, you may be refused final assessment in that subject.

Why Is my University and Union card important?
All students enrolled for courses leading to degrees and/or diplomas, except those exempt from fees, are issued with a University and Union membership card. Your card must be carried during attendance at the University and shown on request.

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

The card must be presented when borrowing from the University libraries, when applying for travel concessions and when notifying a change of address. It must also be presented when paying fees on re-enrolment each year when it will be made valid for the year and returned. Failure to present the card could result in some inconvenience in completing re-enrolment.

If you lose your card it is important to notify the University Union as soon as possible.

New students will be issued with cards on enrolment.

Why should I inform the University if I change my address?
If you change your address you should notify the Student Records Section of the Registrar's Division as soon as possible. Failure to do this could lead to important correspondence (including examination results) not reaching you. The University cannot accept responsibility if official communications fail to reach students who have not notified their change of address. Change of Address Advice Forms are available at Faculty and School offices and at the Enquiry Desk on the Ground Floor of the Chancellery Building.
All communications from the University, including examination results, will be sent to the session address. Change of address advice will be accepted up to 30 November, except for final-year students wishing to change their Submission of Details Associated with Graduation form. Changes to this form will be accepted up to a date four weeks before the student's graduation ceremony.

**Will the University release information to third parties without my permission?**

In general, no. The University treats examination results 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, there are sometimes accusations made that the University has revealed information, including addresses (especially to insurance companies).

All students should be aware that students' addresses are eagerly sought by various commercial agents and that sometimes tricks are used to obtain them. For example, from time to time 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 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.

**How are student records kept up to date?**

Enrolment details forms will be sent to all students on 28 April and 15 September. It is not necessary to return these forms unless any information recorded thereon is incorrect. Amended forms must be returned to the Examinations and Student Records Section within fourteen days. Amendments notified after the closing date will not be accepted unless exceptional circumstances exist and approval is obtained from the Registrar. Amended forms returned to the Registrar will be acknowledged in writing within 14 days.

**Is there any rule related to the ownership of students' work?**

Yes. 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 you as part of your courses, or submitted for any award or competition conducted by the University.

**Can I get a permit to park on campus?**

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

**Lost Property?**

All enquiries concerning lost property should be made to the Superintendent on extension 3580 or to the Lost Property Office at the Union.

**Further Information**

Where can I get further information concerning courses, admission requirements, scholarships and enrolment procedure?

**General**

Any student who requires information on the application of these rules or any service which the University offers, may make enquiries in the Chancellery and in case of difficulties should visit the office of the Deputy Registrar (Student Services).

**Notices**

Official University notices are displayed on the notice boards 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), Electrical Engineering Building, Main Building (Physics and Mining Engineering) and the Western Grounds Area.

Notices are placed on the University notice boards each month detailing forthcoming important dates. Any change to the Calendar of Dates is included in these notices.

**Appeals**

Section 5(c) of Chapter III of the By-laws provides: 'Any person affected by a decision of any member of the Professorial Board
(other than the Vice-Chancellor) in respect of 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.

The Calendar

Please consult the Calendar if you want a more detailed account of the information contained in this section.

Vice-Chancellor's Official Welcome to New Students

All students initially enrolling in the University are officially welcomed by the Vice-Chancellor and Principal at the following times:

Full-time Students
In the Faculties of Architecture, Arts, Biological Sciences, Commerce, Law:
Monday 26 February 1979
11 am in the Clancy Auditorium

In the Faculties of Applied Science, Engineering, Medicine, Professional Studies, Science, and the Board of Studies in Science and Mathematics:
Tuesday 27 February 1979
11 am in the Clancy Auditorium

Part-time Students
Tuesday 27 February 1979
6.30 pm in the Clancy Auditorium

Meeting for Parents of New South Wales
Friday 2 March 1979
7.30 pm in the Clancy Auditorium
Introduction

The Faculty of Professional Studies is concerned with the teaching and examination of subjects concerned with certain forms of professional training. It consists of the Schools of Education, Health Administration, Librarianship and Social Work.

This handbook provides general information concerning conditions for the award of degrees, course structures and subject descriptions. It is important that students become well acquainted with the information presented here, and if there is any difficulty they should consult the University's Admissions Office (Ground Floor, Chancellery) or their School Office.

Professor R.M. Golding
Acting Dean
Faculty of Professional Studies
Faculty Information

Who to Contact

If you require advice about enrolment, degree requirements, progression within courses or information about subject content, contact the appropriate School:

School of Education
Undergraduate Courses
Science Education Office
(Room 41, Building G2, Western Campus, near Parade Theatre entrance)

Graduate Courses
Senior Administrative Officer
Jane Wholohan
(Room 38, Building G2, Western Campus, near Parade Theatre entrance)

School of Health Administrative
Administrative Assistant
Adrian Landa
(Room LG26, The Chancellery)

School of Librarianship
Administrative Assistant
Ray Locke
(Room 18, Hut 12, Lower Campus)

School of Social Work
Administrative Assistant
Audrey Ferguson
(Room 45, Building G2, Western Campus, near Parade Theatre entrance)

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

Faculty of Professional Studies
Enrolment Procedures

All students re-enrolling in 1979 or enrolling in graduate courses should obtain a copy of the free booklet Enrolment Procedures 1979 available from 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.

Faculty Enrolment Restriction

No person shall be permitted to enrol as a full-time student in any course in the faculty of Professional Studies at the same time as he is enrolled for any other diploma or degree in this University or elsewhere, except with the approval of the Head of School concerned.
Professional Studies Library Facilities

Although any of the university libraries may meet specific needs, the staff and students of the Schools of Education, Librarianship and Social Work are served mainly by the Social Sciences and Humanities Library and the Undergraduate Library while those of the School of Health Administration are served mainly by the Biomedical and Undergraduate Libraries. Students studying in the Department of Industrial Arts mainly use the Physical Sciences Library.

Social Sciences and Humanities Librarian Alan Walker
Biomedical Librarian George Franki
Physical Sciences Librarian Marian Bate
Undergraduate Librarian Pat Howard

Student Clubs and Societies

Students have the opportunity of joining a wide range of clubs and societies. Many of these are affiliated with the Students’ Union. There are numerous religious, social and cultural clubs and also many sporting clubs which are affiliated with the Sports Association.

Clubs and societies seeking to use the name of the University in their title, or seeking University recognition, must submit their constitutions either to the Students’ Union or the Sports Association if they wish to be affiliated with either of these bodies, or to the Registrar for approval by the University Council.

Education Society

The Education Society aims to give unity to the large number of students studying Education, whose contact with the School and each other is, for the majority, limited to one year. The Education Society organizes a number of social functions and endeavours, mainly through guest speakers, to acquaint students with educational issues and information relating to the teaching profession.

All students undertaking the DipEd, BScEd or BScDipEd automatically become members and the Society is affiliated with CASOC. Annual general meetings are normally held in March.

Social Work Students’ Association

The Association’s primary function is that of a communication channel operating not only among the students themselves but also between students and staff of the School. Through functions and informal gatherings professional aspects of social work, specific grievances and the course itself may be discussed. Students become members of the Association automatically on admission to the School of Social Work, and elect an executive committee which maintains a formal liaison with the School’s staff. A regular newsletter, ‘News worker’, is produced.

Representatives of the Association attend meetings of the Australian Association of Social Workers (NSW Branch) and the Council of Social Services of NSW, while contact with student bodies in other universities is maintained through the Federation of Australian Social Work Students Association. Further details may be obtained from the Social Work students notice board and the Enquiries Office of the School of Social Work.
Undergraduate Study

Course Outlines

The Faculty of Professional Studies comprises the Schools of Education, Health Administration, Librarianship and Social Work. Undergraduate courses within the Faculty’s responsibility include courses in mathematics education, science education, health administration and social work.

School of Education

Professors of Education
Professor M. Cooper
Professor D.J. Drinkwater

Professor of Science Education and Director of Science Teachers’ Courses
Professor A.A. Hukins

Senior Administrative Officer (Graduate Studies)
Jane Wholohan

Administrative Assistant
Barbara Molnar

The School of Education offers:

• two four-year courses in Mathematics Education and Science Education which both lead to the award of the Degree of Bachelor of Science Diploma in Education (BScDipEd)

• a four-year degree course leading to the award of the Degree of Bachelor of Science (Education) (BSc(Ed))

• a one-year full-time course for graduates leading to the award of the Diploma in Education (DipEd), see Graduate Study in this handbook

• graduate courses leading to the award of the degrees of Master of Education (MEd), Master of Counselling (Education) (MCouns(Ed)) and Master of Education (MEdAdmin), see Graduate Study in this handbook.

The Science Education Degree Course (4080) and the Mathematics Education Course (4070) superseded the Bachelor of Science (Education) Degree Course (4060) in 1977. Students enrolled in the Bachelor of Science (Education) Degree Course were able to transfer to the new course with little difficulty. Those students not able to transfer to the new course continue with the Bachelor of Science (Education) Degree Course until they graduate.

It is expected that two new four-year courses in Arts Education (BADipEd) and Commerce Education (BComDipEd) will commence in 1979. Details may be obtained from the School of Education.

4060
Science (Education) Degree Course • Bachelor of Science (Education) BSc(Ed)

As this course is being replaced by the Science Education Course (4080) no new students are enrolled in this course in 1979. Students already enrolled may continue in the existing course (4060) until the completion of their degree.

*Not available to new students in 1979.
One feature of the course is the breadth of study over a range of science subjects. The course also provides depth by requiring that at least one of the science subjects be taken to a minimum of seven units. The science subjects studied are mostly subjects available in the Science Course. Another feature is the study of education subjects along with science subjects in the second, third and fourth years. Two History and Philosophy of Science subjects are included in the course structure to give an understanding of the nature of science and its relationship to society.

Honours

The BSc(Ed) degree may be awarded with honours. The grade of honours is determined by the quality of work performed throughout the course which includes the fourth year honours research seminar and thesis. The classes and divisions of honours are: Class 1; Class 2, Division 1; Class 2, Division 2.

Applications for admission to the honours program should be made in writing to the Head of School on the completion of third year.

Progression

Progression in the Bachelor of Science (Education) course is permitted by subject. However:

1. Course programs will continue to be stated and time-tabled by year and it cannot be guaranteed that non-standard programs can be completed in the minimum number of years. A non-standard program is one which involves enrolment in subjects or units from more than one year or comprises subjects which do not normally constitute a particular year's course work.

2. Students must satisfy the rules governing re-enrolment; in particular, these require a student enrolled for the first time in the course to complete successfully in that year half of the program in which he/she is enrolled.

3. Before enrolling in any subject a student must have satisfied the relevant prerequisite and co-requisite requirements unless permission to vary this has been granted by the Head of the appropriate School.

4. Only in exceptional circumstances will a student be permitted to enrol for more than twenty-four hours of course work per week.

5. Notwithstanding the above, before a student can enrol in any non-standard program, such program must meet with the approval of the Head of School of Education.

The Science Component

The study of science subjects constitutes a principal part of the course. In the choice of these subjects the following requirements apply:

1. there shall be a total of at least 19 science units.
2. there shall be a major science strand consisting of at least seven units from one of the areas Physics, Chemistry, Biology, Geology.
3. the subjects 1.001 or 1.011, 2.001, 10.001 or 10.011 or 10.021, 17.011 or 17.031, 17.021 and 25.011 shall be included.
4. at least two units in the List of Science Subjects shall be selected from areas other than the area of the major strand.
5. under special circumstances a student may select a science unit other than those in List of Science Subjects with approval of the Head of School.

4060 Science (Education) Full-time Course

Bachelor of Science (Education) BSc(Ed)

Note: In 1979 students may be enrolled in Year 4 of the course, but not in Years 1, 2, and 3.

<table>
<thead>
<tr>
<th>Hours per week</th>
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<tbody>
<tr>
<td>Year 4</td>
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<tr>
<td>Two Science units</td>
</tr>
<tr>
<td>59.514 Education IIA</td>
</tr>
<tr>
<td>59.524 Education IIB</td>
</tr>
<tr>
<td>59.554 Research seminar and thesis†</td>
</tr>
<tr>
<td>59.594 School Experience II</td>
</tr>
<tr>
<td>62.002 History and Philosophy of Science II</td>
</tr>
<tr>
<td><strong>25</strong></td>
</tr>
</tbody>
</table>

† Honours students only.

List of Science Subjects

Physics Area

1.012 Thermal Physics and Mechanics
1.022 Electromagnetism and Modern Physics
1.032 Laboratory
1.922 Electronics (½)
1.932 Introduction to Solids (½)
1.942 Introduction to Physics of Measurement (½)
1.013 Quantum Mechanics and Nuclear Physics
1.023 Statistical Mechanics and Solid State Physics
1.033 Electromagnetism and Optical Physics
1.043 Experimental Physics
1.133 Electronics
1.143 Biophysics (½)
1.153 Biophysical Techniques (½)
1.163 Astrophysics (½)
1.173 Conceptual Framework of Physics (½)

Note: Higher Physics units may also be selected.
Chemistry Area

Level II Units**
- 2.002A Physical Chemistry
- 2.002B Organic Chemistry
- 2.002D Analytical Chemistry
- 2.042C Inorganic Chemistry

Level II/III Units††
- 2.003E Nuclear & Radiation Chemistry
- 2.003H Molecular Spectroscopy & Structure
- 2.003J Fundamentals of Biological Chemistry
- 2.003K Solid State Chemistry
- 2.013A Introductory Quantum Chemistry

Level III Units
- 2.003A Physical Chemistry
- 2.003B Organic Chemistry
- 2.003C Inorganic Chemistry
- 2.003D Instrumental Analysis
- 2.003L Applied Organic Chemistry
- 2.003M Organometallic Chemistry
- 2.013B Synthesis of Complex Organic Molecules
- 2.013C Advanced Inorganic Chemistry
- 2.013D Advanced Analytical Chemistry
- 2.013L Chemistry and Enzymology of Foods
- 2.023A Quantum Theory of Atoms and Molecules
- 2.023B Natural Product Chemistry
- 2.023L Biological and Agricultural Chemistry
- 2.033A Physical Chemistry of Macromolecules
- 2.043A Environmental Chemistry
- 2.043L Chemistry and Enzymology of Foods (double unit)
- 2.053A Chemical Kinetics and Reaction Mechanisms
- 2.053L Biological and Agricultural Chemistry (double unit)
- 2.063A Advanced Molecular Spectroscopy

** The levels referred to are levels in the Science Course.
†† Level II/III units are counted as Level III units for degree purposes but may be done in second or third year.

Note: 1. Not more than two Level II/III units may be studied unless at least one Level II unit is also studied.
2. Not more than one of the double units 2.033L, 2.043L, 2.053L may be credited for degree purposes in the BSc(Ed) Course.

Mathematics Area

10.111A Pure Mathematics II—Linear Algebra
or
10.1113 Multivariable Calculus
10.1114 Complex Analysis
or
10.2111 Vector Calculus
10.2112 Mathematical Methods for Differential Equations
10.331 Statistics SS

Geology Area

25.5021 Stratigraphy and Palaeontology*
25.5022 Mineralogy and Igneous Petrology*
25.5031 Metamorphic Petrology, Structural Geology and Photogeology†
25.5032 Economic Geology and Igneous Petrology
25.5033 Sedimentary Petrology and Mineralogy
25.5034 Global Geophysics, Exploration Geophysics and Field Mapping
25.5035 Stratigraphy and Paleontology
25.5036 Environmental Geology and Estuarine Geology

*These are prerequisite subjects for 25.5032, 25.5033, 25.5034, 25.5035, and 25.5036.
†This is a co-requisite subject for 25.5032, 25.5033, 25.5034, 25.5035, and 25.5036.

Biology Area

17.012 General Ecology
41.101 Principles of Biochemistry
41.102A Biochemistry of Macromolecules
41.102B Physiological Chemistry
41.102C Plant Biochemistry
41.111 Biochemical Control
43.101 Genetics
43.111 Flowering Plants
1. Mathematics Component

Two alternative programs are available. The programs consist of units ranked as Level I, Level II, Level II/III, Level III and Level IV. These units vary from 56 to 84 hours in duration. The terms Levels I, II and III do not necessarily refer to the years in which the unit must be studied. Units at the various levels may be taken in other years provided the prerequisites are met. Level II/III units have only Level I prerequisites.

Students must select one of the two following programs:

10.1 The Mathematics and Science Program

The pass course requires at least 23 units in addition to Education and General Studies subjects or

10.2 The Mathematics and Liberal Studies Program

The pass course requires at least 24 units in addition to Education subjects.

For both programs the selection of units is subject to the requirements listed below:

(1) Not less than 8 units, nor more than 10 units selected from Level I. Except with the approval of the Head of the School of Mathematics and the Director of Science Teacher Courses, not more than 2 Level I units may be taken in any one discipline other than Mathematics.

(2) The following subjects or their higher equivalents shall be included:
   10.091, 10.111A, 10.1113, 10.1114, 10.2111, 10.2112.

(3) courses amounting to at least 2 full units chosen from:
   10.1111, 10.1112, 10.1121, 10.112B, 10.1123, 10.1127, provided that a student may substitute for any of the above units such higher units as are deemed equivalent (for the purposes of satisfying this rule) by a professor of Pure Mathematics.

(4) Not less than 2 units from the following:
   10.2113, 10.2114, 10.212L, 10.212M, 10.331, 10.311A, 10.311B, 10.312A, 10.312B, 10.312C, 10.312D, 10.321E, 10.411A, 10.411B, 10.412A, 10.1127, provided that a student may substitute for any of the above units such higher units as are deemed equivalent (for the purposes of satisfying this rule) by the Head of the School of Mathematics.

(5) Not less than 8 Level II or Level III Mathematics units from Table 2 (see below) and of these not less than four shall be Level III units of which only one may be Level II/III.

(6) For the award of honours the student must complete 10 units as specified in an individual program and must meet prerequisite requirements set out in Table 5 (see below).

(7) In order to graduate a student must pass all the units specified in the program of his/her choice.
2. Education Component

The Education component is one of the major sequences in the course. It consists of subjects grouped as follows:

- Theory of Education  58.512, 58.513, 58.594
- Mathematics Curriculum and Instruction  58.533, 58.534
- School Experience  58.593, 58.594
- Honours  58.505

3. General Studies Component

(1) The Mathematics and Science Program for the pass course requires 63 hours of General Studies. In the honours course an additional General Studies elective is required. The 63 hours in the pass course is made up of three half electives or their equivalent. The three half electives are normally spread over the second, third and fourth years but this distribution may be varied to suit the program of individual students.

(2) In the Mathematics and Liberal Studies Program the Liberal Studies subjects provide the General Studies component.

Enrolment Requirements

1. A student in first year must be enrolled in a Mathematics program in either the Science and Mathematics Course (3970) or the Mathematics Education Course (4070). In the second, third and fourth years a student must be enrolled in one of the Mathematics programs for the Course 4070, the Education program and, in the case of Mathematics and Science program, General Studies.

2. A student may with the approval of the Director of Science Teachers’ Courses and in consultation with the Head on the School of Mathematics, change from one selected Mathematics program to another. A written application to make the change must be lodged, including details of optional units selected in the new program, at the Science Education Office, Room 41, Building M, Western Campus.

3. A student must take care to satisfy the requirements of sequences of units such as prerequisites and co-requisites. A prerequisite subject is one which must be completed prior to enrolment in the subject for which it is prescribed. A co-requisite subject is one which must either be completed successfully before or be studied concurrently with the subject for which it is prescribed. In exceptional circumstances, on the recommendation of the Head of the School of Mathematics, the particular prerequisite or co-requisite may be waived by the Director of Science Teachers’ Courses.

2. General Studies Program

(1) For students electing the Mathematics and Science Program:

Three half electives (or equivalent) taken during second, third and/or fourth years for the pass degree.

An additional elective in Year 5 is required in the honours program.

(2) For students electing the Mathematics and Liberal Studies Program:

No specific General Studies subjects are required.

3. Mathematics Programs

1001

Mathematics and Science

Year 1

10.001 or 10.011

Choose 6 units from:

- Tables 1 and/or 2 and/or
- The BA course* and/or
- Table 3† for program 10.1
Year 2
10.111A or 10.121A, 10.1113 or 10.1213, 10.1114 or 10.1214, 10.2111 or 10.2211, 10.2112 or 10.2212
Choose 4 or 5 units from:
Table 1 and/or 2 and/or
The BA course† and/or
Table 3† for program 10.1

Year 3
Choose 2 Level III Mathematics units from Table 2
Choose 2 or 3 units from:
Table 1 and/or 2 and/or
The BA course† and/or
Table 3† for program 10.1

Year 4
Choose 2 Level III Mathematics units from Table 2
Choose a further Level II or III Mathematics unit if needed to make up the required 8
Choose 1 or 2 units from:
Table 1 and/or 2 and/or
The BA course† and/or
Table 3† for program 10.1

Year 5
10.123 or 10.223 or 10.323 or 10.423

*The four-year program may include up to 5 units from the BA degree course offered by the following Schools: Drama, Economics, English, French, German, History, Philosophy, Political Science, Russian, Sociology, Spanish and Latin American Studies. Each Upper Level unit offered by these Schools shall count as 1½ units. Upper Level units from the School of Economics are restricted to those in 15.062, 15.072, 15.263 and 15.273.

+Not more than 3 units that are not in Table 1 may be taken without the approval of the Director of Science Teachers' Course.

4080
Science Education Degree Course
Bachelor of Science Diploma in Education BSc DipEd

The Science Education Course, leading to the award of the combined qualification, BSc DipEd is designed primarily to prepare students for entry into the teaching profession as teachers of science in secondary schools.

An important feature of the course is that students take education subjects along with science subjects in second, third and fourth years. The science component is based on programs offered in the Science and Mathematics Course. Students may proceed to honours in a science or in education. One of the science units is a history and philosophy of science subject. This is included to give students an understanding of the nature of science and of its relationship to society, which is especially important to prospective teachers of science.

Objectives of the Course
The objectives of the course are those of the Science and Mathematics Course (3970) together with others which are essential for a course which is designed to prepare science teachers.

In summary, the objectives of the Science and Mathematics course broadly aim to develop a working knowledge of scientific methods of investigation and to promote an understanding of the significance of science, technology, economics and sociological factors in modern society. The objectives seek to develop in the student the ability and disposition to think logically, to communicate clearly by written and oral means and to read critically. Students are encouraged to develop the habit of seeking and recognizing relationships between phenomena, principles, theories, conceptual frameworks and problems.
The education component of the course seeks to provide a knowledge of theories of education and the latest innovations in educational practice and theory, and the development of skills in teaching science.

Honours and Pass Degree Requirements

There are both pass and honours programs available in the course leading to the double qualification Bachelor of Science Diploma in Education (BSc DipEd).

1. The pass course requires successful completion of a four-year program.

2. The honours course requires successful completion of a five-year program in which the fifth year is devoted to an approved honours program in one of the following disciplines:

   Physics, Chemistry, Geology, Biochemistry, Biological Technology, Botany, Microbiology, Zoology, Education, Physiology.

The grades in this program shall be Honours Class I, II/1, II/2 and III.

Components of the Course

The Science Education Course consists of Science, Education and General Studies components.

1. Science Component

   The Science component is based on the prescribed programs from the Science and Mathematics Course (3970) rearranged to spread over one additional year. These programs are composed of units ranked as Level I, Level II, Level II/III, Level III, and Level IV, such units varying from 56 to 84 hours. The terms Levels I, II and III do not necessarily refer to the years in which the unit must be studied. Units at the various levels may be taken in other years provided the prerequisites are met. Level II/III units have only Level I prerequisites. For the pass course the science component requires at least 23 units with the following requirements:

   (1) There shall be ten units from Level I and these must come from the following subjects: 1.001 or 1.011, 2.121, 2.131, 10.001 or 10.011 or 10.021B and 10.021C, 17.011 or 17.031, 17.021, 25.011.

   (2) Not less than four units from Level II.

   (3) Not less than two units beyond Level I in science disciplines in any of the teaching areas physics, chemistry, biology and geology other than that of the student's major. In special circumstances this requirement may be waived with the permission of the Director of Science Teachers' Courses or as specified in individual programs.

(4) One unit shall be a History and Philosophy of Science subject. In special circumstances this requirement may be waived with the permission of the Director of Science Teachers' Courses or as specified in individual programs.

(5) For the honours program with honours in a science discipline there shall be at least six Level III units and students must meet prerequisite requirements set out in Table 4.

(6) For the award of honours in a science discipline the student must complete at least ten level IV units as specified, in an individual program.

(7) In order to graduate a student must pass all the units specified in the program of his/her choice.

2. Education Component

   The Education Component is one of the major sequences in the course. It consists of subjects grouped as follows:

   Theory of Education 58.512, 58.513, 58.584
   Science Curriculum and Instruction 58.523, 56.524
   School Experience 58.593, 58.594
   Honours 58.505

3. General Studies Component

   The General Studies component involves 63 hours in the pass course. In the honours course an additional General Studies elective is required. The 63 hours in the pass course is made up of three half electives or their equivalent. The three half electives are normally spread over the second, third and fourth years but this distribution may be varied to suit the programs of individual students.

Enrolment Requirements

1. In all years of the course a student must be enrolled in one of the prescribed Science programs.

   In years two, three and four a student must be also enrolled in the Education program and the General Studies program.

2. A student may, with approval of the Director of Science Teachers' Courses, change from one selected Science program to another. A written application to make the change must be lodged, including details of any optional units selected in the new program, at the Science Education Office, Room 41, Building M, Western Campus.
3. The allowed specific programs, listed in Programs below, are made up of sequences of units. Where a choice is indicated care must be taken to satisfy the requirements such as prerequisites and co-requisites.

4. A prerequisite subject is one which must be completed prior to enrolment in the subject for which it is prescribed. A co-requisite subject is one which must either be completed successfully before or be studied concurrently with the subject for which it is prescribed. An excluded subject is one which cannot be counted together with the subject which excludes it towards the degree of qualification. In exceptional circumstances, on the recommendation of the head of the appropriate school, the particular prerequisite or co-requisite may be waived by the Director of Science Teachers' Courses.

Programs

The Course followed by a particular student has three component programs.

1. Education Program

This program is the same for each student though there are electives built in to some of the subjects. The program is as follows:

<table>
<thead>
<tr>
<th>Year</th>
<th>Subject</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>58.512*</td>
<td>2½</td>
</tr>
<tr>
<td>3</td>
<td>58.513</td>
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<td></td>
<td>58.523</td>
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<td></td>
<td>58.593</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>58.584</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>58.524</td>
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</tr>
<tr>
<td></td>
<td>58.594</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>58.505†</td>
<td></td>
</tr>
</tbody>
</table>

*58.512 includes 14 hours of field work as school experience within the 2½ hour per week allocation.
† 58.505 is the honours year in education. It is a possible alternative to an honours year in one of the sciences.

2. General Studies Program

Three half electives (or equivalent) taken during second, third and/or fourth years for the pass degree.

An additional elective in year 5 is required in the honours course.

3. Science Program

Each Science program is based on a program in the Science and Mathematics Course. Each one has an identifying number. The numbers before the decimal point identify the school offering the major Science sequence involved. The number after the decimal point distinguishes different programs of that school. Where a double number is given two identified schools are equally concerned in the major Science sequences.

1 Physics
2 Chemistry
25 Geology
41 Biochemistry
42 Biological Technology
43 Botany
44 Microbiology
45 Zoology
73 Physiology

0101

Physics†

Year 1
1.001 or 1.011
10.001 or 10.011
2.121 and 2.131
17.031 and 17.021
or 25.011

Year 2
1.012, 1.022, 1.032
10.2111 and 10.2112
10.1113 and 10.1114
17.031 and 17.021
or 25.011

Year 3
62.042
Choose 2 units from:
1.013, 1.023, 1.033, 1.043
Choose 1 unit from:
10.111A or Table 1

Year 4
Choose 2 units from:
1.013, 1.023, 1.033, 1.043
Choose 2 units from:
10.412D or Table 1

Year 5
1.104

0102

Physics — Single Major†

Year 1
1.001 or 1.011
10.001 or 10.011
2.121 and 2.131
17.031 and 17.021
or 25.011
### Undergraduate Study: Course Outlines

#### Year 2
- 1.012, 1.022, 1.032
- 10.2111 and 10.2112
- 17.031 and 17.021
- or 25.011

Choose 1 unit from: Table 1

#### Year 3
- Choose 2 units from: 1.013, 1.023, 1.033, 1.043
- Choose 1 unit from Table 1

#### Year 4
- Choose 2 units from: 1.013, 1.023, 1.033, 1.043
- Choose 2 units from: Table 1

*Under exceptional circumstances students taking this program may be eligible for transfer into year 5 of Program 1.1 or 1.3 or 1.5, the latter if the student reaches a satisfactory level in a number of Mathematics units at Levels II and III.*

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### 0103
**Applied Physics†**

#### Year 1
- 1.001 or 1.011
- 2.121 and 2.131
- 10.001 or 10.011
- 17.031 and 17.021
- or 25.011

#### Year 2
- 1.012
- 1.022
- 1.032
- 10.2111 and 10.2112
- 10.1113 and 10.1114
- 17.031 and 17.021
- or 25.011

#### Year 3
- 1.013, 1.023, 62.042
- Choose 1 unit from: 1.133, 1.313, 1.323, 1.333

#### Year 4
- 1.033, 1.043
- Choose 2 units from: 1.133, 1.313, 1.323, 1.333

#### Year 5
- 1.304

---

### 0105
**Theoretical Physics†**

#### Year 1
- 1.001 or 1.011
- 2.121 and 2.131
- 10.001 or 10.011
- 17.031 and 17.021
- or 25.011

---

### 0201
**Chemistry Major**

#### Year 1
- 1.001 or 1.011
- 2.121 and 2.131
- 10.001 or 10.011 or 10.021B and 10.021C
- 17.031 and 17.021
- or 25.011

#### Year 2
- 2.002A, 2.002B, 2.042C, 2.002D
- 17.031 and 17.021
- or 25.011

Choose 1 unit from: Table 1

#### Year 3
- 62.042

Choose 2 Level III Chemistry units

Choose 1 unit from: Table 1

#### Year 4

Choose 2 Level III Chemistry units

Choose 2 units from: Table 1

#### Year 5
- 2.014
2501
Geology — Double Major

Year 1
1.001 or 1.011
2.121 and 2.131
10.001 or 10.011 or 10.021B and 10.021C
25.011

Year 2
25.012, 25.022, 17.031 and 17.021,
62.042
Choose 2 units from: Table 1

Year 3
25.013, 25.023,

Year 4
25.033

Year 5
25.404

2502
Geology — Single Major

Year 1
1.001 or 1.011
2.121 and 2.131
10.001 or 10.011 or 10.021B and 10.021C
25.011

Year 2
25.012, 25.022, 17.031 and 17.021
Choose 2 units from: Table 1

Year 3
25.013, 62.042,
Choose 1 unit from: Table 1

Year 4
25.023
Choose 2 units from: Table 1

Year 5
25.404

4144
Microbiology and Biochemistry

Year 1
1.001 or 1.011
2.121 and 2.131
10.001 or 10.011 or 10.021B and 10.021C
17.031 and 17.021

Year 2*
2.002B, 41.101, 44.101, 44.121, 25.011

Year 3
41.102A, 41.102B, or 41.102C and 41.102D

Year 4
44.102, 44.112

Year 5
41.103 or
Choose 10 units including either:
44.563 or 44.573 or 44.583
and from 44.513, 44.523, 44.533, 44.543, 44.553

*Students are advised to include, where possible, the subject 41.111 in addition to those listed.

4301
Systematic Botany

Year 1
1.001 or 1.011
2.121 and 2.131
10.001 or 10.011 or 10.021B and 10.021C
17.031 and 17.021

Year 2
43.101, 43.111, 25.011
Choose 2 Level II units of Biochemistry or Chemistry or Physics-
Choose 1 unit from: Table 1
Year 3
62.042
Choose either 43.112 or 43.162
Choose 1 unit from: 43.102, 43.132, 43.152, 43.172
or other Level III Botany units
Choose 1 unit from: Table 1

Year 4
Choose 2 Level III Botany units
Choose 2 units from: 45.202, 45.402, 45.412, 45.422

Year 5
43.103 or 45.103

4302
Mycology — Plant Pathology

Year 1
1.001 or 1.011
2.121 and 2.131
10.001 or 10.011 or 10.021B and 10.021C
17.031 and 17.021

Year 2
41.101, 43.111, 43.131, 44.101; 25.011

Year 3
43.132, 43.172, 62.042
Choose 1 unit from: 43.101, 43.121

Year 4
Choose 2 Level III Botany units
Choose 2 units from: Table 1

Year 5
43.103

4401
Microbiology

Year 1
1.001 or 1.011
2.121 and 2.131
10.001 or 10.011 or 10.021B and 10.021C
17.031 and 17.021

Year 2
2.002B, 41.101, 44.101, 44.121 25.011

Year 3
41.102A, 44.102

Year 4
44.112, 44.132, 62.042

Year 5
Choose 10 units including either
44.563 or 44.573 or 44.583 and from 44.513, 44.523, 44.533,
44.543, 44.553

4404
Microbiology (General)

Year 1
1.001 or 1.011
2.121 and 2.131
10.001 or 10.011 or 10.021B and 10.021C
17.031 and 17.021

Year 2
41.101, 44.101, 44.121, 25.011
Choose 1 unit from: Table 1

Year 3
44.102, 44.112

Year 4
62.042
Choose 3 units from Table 1

Year 5
Choose 10 units including either
44.563 or 44.573 or 44.583
and from 44.513, 44.523, 44.533, 44.543, 44.553

4345
Botany and Zoology

Year 1
1.001 or 1.011
2.121 and 2.131
10.001 or 10.011 or 10.021B and 10.021C
17.031 and 17.021

Year 2
41.101, 43.131, 45.101, 45.201, 25.011

Year 3
43.132 Choose 1 Level III Botany unit
Choose 2 units from: 45.202, 45.402, 45.412, 45.422
4501  
Zoology (General)  

Year 1  
1.001 or 1.011  
2.121 and 2.131  
10.001 or 10.011 or 10.021B and 10.021C  
17.031 and 17.021  

Year 2  
25.011, 45.101, 45.201, 45.301  
Choose 2 Level II units of Biochemistry or Chemistry or Mathematics  

Year 3  
43.101, 62.042  
Choose 2 Level III Zoology units from: Table 1  

Year 4  
Choose 2 Level III Zoology units from: Table 1  
Choose 2 units from: Table 1  

Year 5  
45.103  

4503  
Zoology with Botany  

Year 1  
1.001 or 1.011  
2.121 and 2.131  
10.001 or 10.011 or 10.021B and 10.021C  
17.031 and 17.021  

Year 2  
25.011, 45.201, 45.301, 43.101, 43.111, 17.012  

Year 3  
45.101, 62.042  
Choose 2 Level III Zoology units  

Year 4  
Choose 2 Level III Zoology units  
Choose 2 Level III Botany units  

Year 5  
45.103  

7301  
Physiology — Single Major  

Year 1  
1.001 or 1.011  
2.121 and 2.131  
10.001 or 10.011 or 10.021B and 10.021C  
17.031 and 17.021  

Year 2  
41.101, 41.111, 73.111, 25.011
# Table 1

## Units available in the Mathematics Education Course (4070) and Science Education Course (4080)

### Information Key

The following is the key to the information supplied about each subject in the table below: F (Full year, i.e., both sessions); S1 (Session 1); S2 (Session 2); SS (single session, i.e., one only); I, II, III (Levels, I, II, III); Hpw (Hours per week).

### HSC Exam Prerequisites

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

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.

## School of Physics

<table>
<thead>
<tr>
<th>No</th>
<th>Name</th>
<th>Level</th>
<th>Unit Value</th>
<th>When Offered</th>
<th>Hpw Prerequisites</th>
<th>Co-requisites</th>
<th>Excluded</th>
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<td></td>
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<td></td>
<td>2 unit Mathematics (at HSC Exam percentile range 71-100) or 10.021B and</td>
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<td>3 unit Mathematics (at HSC Exam percentile range 31-100) or 10.021C, or</td>
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<td>4 unit Mathematics (at HSC Exam percentile range 31-100) or 10.021 or 10.001 or 10.011</td>
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<td>1.011</td>
<td>Higher Physics I</td>
<td>I</td>
<td>2 F</td>
<td>6</td>
<td>2 unit Science (incl. Physics and/or Chem) (at HSC Exam percentile range 31-100)</td>
<td></td>
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<td>or 10.001</td>
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<td></td>
<td></td>
<td>(for 1.011)</td>
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*Results in the percentile range 1-10 at a standard acceptable to the Professorial Board.

*For students who enrol in and successfully complete the subjects 1.021 Introductory Physics (2 units) and 1.001 Physics I (2 units) the total value of the combined subjects will be counted as 3 units.
### Table 1 (continued)

#### School of Physics (continued)

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#### Physics Level III Supplementary Units

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**School of Chemistry**

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| 2.121 | Chemistry IA             | I      | 1 S1 or S2 | 6 | 2.111 or 
4 unit Science (any strands) 
(at HSC Exam percentile range 31-100) or 2 unit Science 
(any strands) at HSC Exam percentile range 31-100) |               |          |

For footnotes, see over two pages.
### Table 1 (continued)

**School of Chemistry (continued)**

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For footnotes, see overleaf.
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*These courses may be offered either Full year, one session, or both.
†Only one of these double units may be chosen.
‡A student who has passed 2.121 may not subsequently enrol in 2.111.

### School of Electrical Engineering

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*Students completing 6.600 at a grade of credit or better may, with permission, be able to undertake this course.
### General Biology

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*Students with Grade 1 or 2 in HSC 4 unit Science with Biology, or 2 unit Biology may apply to enrol in 43.101, 45.101, 45.201 or 45.301 in lieu of 17.021 after completion of 17.031.

### School of Applied Geology

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* Three field tutorials, up to five days in all, are an essential part of the course. Attendance is compulsory.
** Field work of up to ten days in each case is a compulsory part of this course.
*** A geological survey camp of ten days duration is a compulsory part of this course.
**** Field tutorials constitute an essential part of this course.
† Compulsory field work to be arranged.

### School of Biochemistry‡

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<th>Unit Value</th>
<th>When Offered</th>
<th>Hpw</th>
<th>Prerequisites*</th>
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<td>Introductory Biochemistry</td>
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<td>17.021†, 2.121†, 2.131†</td>
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<td>41.111</td>
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<td>II</td>
<td>1 S2</td>
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For footnotes, see overleaf
### Table 1 (continued)

#### School of Biochemistry\(\dagger\) (continued)

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<td>Biochemistry of Macromolecules</td>
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\(\dagger\) Level III Units available only during the daytime.
* In exceptional circumstances a student may apply to the Head of School for variation of the prerequisite.
** Terminating pass not acceptable.

#### School of Biological Technology

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<td>42.101</td>
<td>Introduction to Biotechnology</td>
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* In exceptional circumstances a student may apply to the Head of School for variation of the prerequisite.

#### School of Botany\(\dagger\)

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<td>43.111</td>
<td>Flowering Plants</td>
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For footnotes, see next page
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#### School of Botany† (continued)

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Note: A student shall not be admitted to Level III Botany units, without special permission of the Head of School, unless Chemistry 2.001 or 2.121 and 2.131 has been completed. Students taking four or more units in the School of Botany must take at least two Level II units in Biochemistry, or Chemistry, or Physics, or Mathematics.
† † Level III Courses conducted by the School of Botany are available only during the daytime to part-time students enrolling for the first time in 1973 or later.
‡ ‡ This unit may be taken as a co-requisite in some circumstances.
§ § A student may apply to the School for variation of the prerequisite.
| Students with Grade 1 or 2 in HSC 4 unit Science with Biology, or 2 unit Biology may apply to enrol in 43.101, or 45.101, 45.201, 45.301 in lieu of 17.021 after completion of 17.031.

#### School of Microbiology†

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<th>Name</th>
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<th>Unit</th>
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<th>Co-requisites</th>
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For footnotes, see overleaf.
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† All units available only during the daytime.

In exceptional circumstances a student may apply to the Head of School for variation of the prerequisite.

** For students not intending to major in Microbiology and lacking Level I Biology. This unit is not acceptable as a prerequisite for Level III Microbiology, except on the recommendation of the Head of School.

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### School of Zoology†

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<td>10.311A, 10.321A, 10.331</td>
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<td>S1</td>
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<td>45.152</td>
<td>Population and Community Ecology</td>
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For footnotes see next page
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#### School of Zoology†

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Note: A student will not be admitted to level III Zoology units without special permission of the Head of School, unless Chemistry 2.001 or 2.121 and 2.131 has been completed.

Students who wish to complete a major in the School of Zoology must take Biometry 45.101, and at least two Level II units of Biochemistry, or Chemistry, or Physics, or Mathematics, or Geology.

† Level III courses conducted by the School of Zoology are available only during the daytime to part-time students enrolling for the first time in 1973 or later.

§ Students intending to enrol in this unit should register with the School of Zoology for the February field trip by 8 January.

‡ One of: 10.311A, 10.321A; 10.331 may be substituted for 45.101 with special permission of the Head of School.

### School of History and Philosophy of Science

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<td>II</td>
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<td>The Social System of Science</td>
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For footnotes, see overleaf.
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<td>Predicate Logic and the Foundations of Mathematics*</td>
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<td>62.083</td>
<td>Marxism and Science*</td>
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<td>1</td>
<td>F</td>
<td>2</td>
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<tr>
<td>62.093</td>
<td>Science and the Strategy of War and Peace</td>
<td>III</td>
<td>1</td>
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<td>3</td>
<td>62.012 or 62.022 or 62.032 or 62.052 or 62.062</td>
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* Not offered in 1979.

#### School of Anatomy

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<td>70.011A</td>
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<td>1</td>
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<td>70.011C</td>
<td>Introductory Anatomy</td>
<td>II</td>
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<td>6</td>
<td>17.011 and 17.021</td>
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<td>Mammalian Embryology</td>
<td>III</td>
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#### School of Physiology and Pharmacology

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<tbody>
<tr>
<td>73.111</td>
<td>Physiology IA</td>
<td>II</td>
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<td>II</td>
<td>2</td>
<td>F</td>
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For footnotes, see next page
Table 1 (continued)

School of Physiology and Pharmacology (continued)

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Note: The above represent the normal prerequisites for the courses in Physiology, but the Head of School may recommend that students with a good academic record be granted exemption from them.

School of Community Medicine

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<th>Co-requisites</th>
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<tr>
<td>79.201</td>
<td>Population Genetics Theory</td>
<td>III</td>
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<td>79.202</td>
<td>Quantitative Methods in Human Genetics</td>
<td>III</td>
<td>1</td>
<td>S2</td>
<td>5 9.801 or 43.101; 9.811 or 10.311A and 10.311B or 10.321A and 10.321B or 10.321B or 10.331 or 12.152 or 45.101</td>
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<td>Biochemical Genetics of Man</td>
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<td>1</td>
<td>S2</td>
<td>6 43.101, 41.101</td>
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<td>79.401</td>
<td>Genetics of Behaviour</td>
<td>III</td>
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<td>S2</td>
<td>5 17.031 or 17.011</td>
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## Table 2

Units available in Mathematics Education Course (4070)

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<tr>
<td><strong>No</strong></td>
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<td>10.001</td>
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<td>10.021B</td>
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<td>10.041</td>
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<td>10.031‡</td>
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# Results in the percentile range 1-10 at a standard acceptable to the Professional Board.

## Results in the percentile range 11-30 at a standard acceptable to the Professional Board.

### Results in the percentile range 31-70 at a standard acceptable to the Professional Board.

* For any listed unit an appropriate higher unit may be substituted.

† If a unit in this column is counted the corresponding unit in the first column may not be counted.

‡ Mathematics 10.031 is included for students desiring to attempt only one Level III Mathematics unit if other Level III units in Pure Mathematics, Applied Mathematics are taken. 10.031 Mathematics will not be counted.

§ Mathematics 10.032 is included for students desiring to attempt only one Level II Mathematics unit if other Level II units in Pure Mathematics, Applied Mathematics or Theoretical Mechanics are taken. 10.032 Mathematics will not be counted.

¶ Entry to General Mathematics I is allowed only with permission of the Head of the School of Mathematics, and that permission will be given only to students who do not qualify to enter unit 10.021B.
### Pure Mathematics

**Pure Mathematics Level II**

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Level</th>
<th>Unit</th>
<th>Value</th>
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<th>Hpw</th>
<th>Prerequisites, Co-requisites</th>
<th>Excluded</th>
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<tbody>
<tr>
<td>10.111A</td>
<td>Linear Algebra</td>
<td>II</td>
<td>1</td>
<td>F</td>
<td>2</td>
<td>10.001</td>
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<tr>
<td>10.1111</td>
<td>Group Theory</td>
<td>II/III</td>
<td>½</td>
<td>S1</td>
<td>2</td>
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<td>10.111A, 10.1113, 10.1114, 10.2111, 10.2112**</td>
<td>10.121A</td>
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<tr>
<td>10.1112</td>
<td>Geometry</td>
<td>II/III</td>
<td>½</td>
<td>S2</td>
<td>2</td>
<td>10.001</td>
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<td>10.1111</td>
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<tr>
<td>10.1113**</td>
<td>Multivariable Calculus</td>
<td>II</td>
<td>½</td>
<td>S1</td>
<td>2½</td>
<td>10.001</td>
<td></td>
<td>10.1213**</td>
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<tr>
<td>10.1114**</td>
<td>Complex Analysis</td>
<td>II</td>
<td>½</td>
<td>S2</td>
<td>2½</td>
<td>10.001</td>
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**Higher Pure Mathematics Level II‡**

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<th>Unit</th>
<th>Value</th>
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<th>Hpw</th>
<th>Prerequisites, Co-requisites</th>
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<tr>
<td>10.121A</td>
<td>Algebra</td>
<td>II</td>
<td>1</td>
<td>F</td>
<td>2½</td>
<td>10.011</td>
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<tr>
<td>10.121C</td>
<td>Number Theory and Geometry</td>
<td>II/III</td>
<td>1</td>
<td>F</td>
<td>2½</td>
<td>10.011</td>
<td>10.121A, 10.1213, 10.1214, 10.2211 or 10.2111, 10.2112 or 10.2112**</td>
<td>10.111A, 10.1112</td>
</tr>
<tr>
<td>10.1213**</td>
<td>Multivariable Calculus</td>
<td>II</td>
<td>½</td>
<td>S1</td>
<td>2½</td>
<td>10.011</td>
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<td>10.1113**</td>
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<tr>
<td>10.1214**</td>
<td>Complex Analysis</td>
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**Pure Mathematics Level III ¶**

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<td>½</td>
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<td>2</td>
<td>¶</td>
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<td>¶</td>
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<td>Ordinary Differential Equations</td>
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<td>¶</td>
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<td>10.1113, 10.1114**</td>
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*For footnotes, see overleaf*
### Table 2 (continued)

#### School of Mathematics (continued)

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<td>10.2112**, 10.1128</td>
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**Higher Pure Mathematics Level III §**

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<th>Prerequisites*</th>
<th>Co-requisites*</th>
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<td>Complex Analysis and Differential Equations</td>
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<td>10.1213, 10.1214**</td>
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</table>

* For any listed unit an appropriate higher unit may be substituted.
† If a unit in this column is counted the corresponding unit in the first column may not be counted.
‡ Admission to Higher Pure Mathematics II normally requires completion of 10.011 Higher Mathematics I; students who gain a superior pass in 10.001 Mathematics I may, subject to the approval of the Head of the School of Mathematics, be permitted to proceed to Higher Pure Mathematics II units.
§ Students majoring in Physics who wish to take Higher Pure Mathematics II should attempt 10.121A, 10.1213, 10.1214, either 10.2211 or 10.2111 and either 10.2212 or 10.2112.
³ Students aiming at Honours in Pure Mathematics must take 10.121A, 10.121C, 10.1213, 10.1214, either 10.2211 or 10.2111 and either 10.2212 or 10.2112.
§ Students wishing to attempt Higher Level III units should consult with the School of Mathematics prior to enrolment. Pre- and co-requisites may be varied in special circumstances with the permission of the Head of the School of Mathematics.
¶ Students will not normally be permitted to attempt a Level III Pure Mathematics unit unless they have completed at least two Level II units from 10.011A, 10.1113, 10.1114, 10.2111 and 10.2212 and are concurrently attempting the remaining unit.
** The half units 10.1213 (10.1213) and 10.1114 (10.1214) together replace the unit 10.111B (10.121B). The half units 10.2111 (10.2211) and 10.2112 (10.2212) together replace the unit 10.211A (10.221A).

### Applied Mathematics

#### Applied Mathematics Level II

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<tr>
<th>No.</th>
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<th>Unit</th>
<th>When Offered</th>
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<th>Prerequisites*</th>
<th>Co-requisites*</th>
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<td>10.2111§</td>
<td>Vector Calculus</td>
<td>II</td>
<td>½</td>
<td>S1</td>
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<td>10.2211§</td>
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<tr>
<td>10.2112§</td>
<td>Mathematical Methods for Differential Equations</td>
<td>II</td>
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<td>S2</td>
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<td>10.2212§</td>
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<tr>
<td>10.2113§</td>
<td>Introduction to Linear Programming</td>
<td>II</td>
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<td>S1</td>
<td>2</td>
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<td>10.2213</td>
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<tr>
<td>10.2114§</td>
<td>Linear and Non-Linear Optimization Techniques</td>
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### Higher Applied Mathematics Level II

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<th>Unit</th>
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<th>Prerequisites*</th>
<th>Co-requisites*</th>
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<tbody>
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<td>10.2111§</td>
<td>Vector Analysis</td>
<td>II</td>
<td>½</td>
<td>S1</td>
<td>2½</td>
<td>10.011 or 10.001 Dist**</td>
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<td>10.2111§</td>
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<tr>
<td>10.2212§</td>
<td>Mathematical Methods for Differential Equations</td>
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<td>10.2211§</td>
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For footnotes, see next page
Table 2 (continued)

School of Mathematics (continued)

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<th>Unit Value</th>
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<th>Co-requisites*</th>
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<tbody>
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<td>10.2213§</td>
<td>Introduction to Linear Programming</td>
<td>II</td>
<td>½</td>
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<td>10.2113</td>
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<td>or 10.001</td>
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<td></td>
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<td>Dist**</td>
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<tr>
<td>10.2214§</td>
<td>Linear and Non-Linear Optimization Techniques</td>
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Applied Mathematics Level III

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Higher Applied Mathematics Level III

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†† For any listed unit an appropriate higher unit may be substituted.
* If a unit in this column is counted the corresponding unit in the first column may not be counted.
** With the permission of the Head of the Department a sufficiently good grading may be substituted.
*** At least one further unit chosen from the following: 10.111A, 10.1114, 10.2111, 10.2112, 10.2113.
**** At least ½ further units chosen from the following: 10.121A or 10.111A Dist, 10.1214 or 10.1114 Dist, 10.2211 or 10.2111 Dist, 10.2212 or 10.2112 Dist, 10.2213 or 10.2113 Dist, 10.2214 or 10.2114 Dist.
§ The half units 10.1113 (10.1213) and 10.1114 (10.1214) together replace the unit 10.111B (10.121B). The half units 10.2111 (10.2211) and 10.2112 (10.2212) together replace the unit 10.211A/10.221A. The half units 10.2115 (10.2215) and 10.1114 (10.2214) together replace the unit 10.2119 (10.2210).
### Table 2 (continued)

#### School of Mathematics (continued)

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#### Statistics

**Theory of Statistics Level II**

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<td>10.321B, 10.331, 10.301, 45.101</td>
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#### Higher Theory of Statistics Level II

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For footnotes, see overleaf.
### Higher Theory of Statistics Level III

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* For any listed unit an appropriate higher unit may be substituted.
† If a unit in this column is counted, the corresponding unit in the first column may not be counted.
‡ Plus any two Level III Pure Mathematics, Applied Mathematics, Theoretical Mechanics or Computer Science units. It is sufficient to take 10.312B (10.322B) in the same year.
§ For a student taking four of the units 10.312A, 10.312B, 10.312C, 10.312D, 10.312E (or the corresponding Higher units), a project is required as part of either 10.312C (10.322C) or 10.312E (10.322E).
¶ The half unit 10.1113 (10.2113) and 10.1114 (10.2114) together replace the unit 10.111B (10.211B). The half units 10.2111 (10.2211) and 10.2112 (10.2212) together replace the unit 10.211A (10.221A).
** The evening course for 10.311A will, subject to sufficient enrolment, run at 3½ hours per week throughout the year.

### Theoretical and Applied Mechanics

#### Theoretical Mechanics Level II

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For footnotes, see overleaf
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- For any listed unit an appropriate higher unit may be submitted.
- If a unit in this column is counted, the corresponding unit in the first column may not be counted.
- With the permission of the Head of the Department, a sufficiently good grading may be substituted.
- § It is recommended that one of the following be taken concurrently: 10.411A or 1.012 or 1.913.

### Higher Theoretical Mechanics Level III

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### School of Mechanical and Industrial Engineering

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Students who wish to enrol in this subject can make up for the lack of the prerequisite by work taken in Physics in the first half of first year.
### Table 2 (continued)

**School of Psychology**

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* Reserved for approved potential Psychology IV candidates. Applicants must have completed 12.001, 12.052, 12.062 and 12.152 at an average level of Credit or better.

Notes:
1. A student may not enrol in more than three Level III Psychology units unless 12.152 Research Methods II has been passed.
2. A student may not enrol in more than five Level III Psychology units unless 12.153 Research Methods IIIA has been passed.
3. A major in Psychology is minimally satisfied by the completion of 12.001, two Psychology Level II units and four Psychology Level III units.
4. A double major in Psychology adds an additional four Psychology Level III units to the four required for a single major. The double major is available to students in the three year program and the four year program.
5. Not all Level III units are necessarily offered in each year.

### School of Geography

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†† This prerequisite unit may be waived for students not proceeding to a Geography major.
* Field work of up to 2 days is a compulsory part of this course.
† Field work of up to 5 days is a compulsory part of this course.
In special circumstances a student may apply to the Head of School for permission to take 27.801 as a co-requisite.
Table 2 (continued)  

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<td>52.193</td>
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<tr>
<td>52.273</td>
<td>Aesthetics</td>
<td>II</td>
<td>½</td>
<td>S2</td>
<td>2</td>
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<td>Philosophical Study of Woman</td>
<td>II</td>
<td>½</td>
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<td>Plato's Later Dialogues</td>
<td>II</td>
<td>½</td>
<td>S2</td>
<td>2</td>
<td>52.483*</td>
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<tr>
<td>52.303</td>
<td>Spinoza and Leibniz</td>
<td>II</td>
<td>½</td>
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<td>2</td>
<td>52.163</td>
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<td>52.323</td>
<td>Set Theory</td>
<td>II</td>
<td>½</td>
<td>S1</td>
<td>2</td>
<td>52.153 or 52.1532 or 26.812 or 10.001 or 10.011 or 10.021B and 10.021C</td>
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<tr>
<td>52.333</td>
<td>Philosophy of Perception</td>
<td>II</td>
<td>½</td>
<td>S2</td>
<td>2</td>
<td>52.163</td>
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<tr>
<td>52.343</td>
<td>Privacy and Other Minds</td>
<td>II</td>
<td>½</td>
<td>S1</td>
<td>2</td>
<td>52.163, and either 52.173 or 52.243</td>
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<tr>
<td>52.353</td>
<td>History of Modern Logic</td>
<td>I</td>
<td>½</td>
<td>S1</td>
<td>2</td>
<td>52.153 or 52.1532</td>
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<tr>
<td>52.373</td>
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<tr>
<td>52.393</td>
<td>History of Traditional Logic</td>
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<td>½</td>
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<td>2</td>
<td>52.153 or 52.1532</td>
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*For footnotes, see next page
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<tr>
<th>No.</th>
<th>Name</th>
<th>Level</th>
<th>Unit</th>
<th>Value</th>
<th>When Offered</th>
<th>How</th>
<th>Prerequisites</th>
<th>Co-requisites</th>
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<td>½</td>
<td>S1</td>
<td>S2</td>
<td>52.323 or 10.1123</td>
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<td>II</td>
<td>½</td>
<td>S2</td>
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<td>Level II units (Cr)</td>
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<tr>
<td>52.453</td>
<td>Reading Option B</td>
<td>II</td>
<td>½</td>
<td>S1</td>
<td>Satisfactory performance in Level II units</td>
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<tr>
<td>52.463</td>
<td>Introduction to Transformational Grammar</td>
<td>II</td>
<td>½</td>
<td>S1</td>
<td>Any Level I unit</td>
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<tr>
<td>52.473</td>
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<td>½</td>
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<td>52.463 or 52.153 or 52.1531</td>
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<td>Plato's Theory of Forms</td>
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<td>½</td>
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<td>II</td>
<td>½</td>
<td>S2</td>
<td>Level II status in Philosophy** and 52.182 or 52.203</td>
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<td>52.543</td>
<td>The Philosophy of Love</td>
<td>II</td>
<td>½</td>
<td>S1</td>
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<td>52.553</td>
<td>Contemporary Moral Issues</td>
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<td>½</td>
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<tr>
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<td>Hume</td>
<td>II</td>
<td>½</td>
<td>S1</td>
<td>Level II status in Philosophy**</td>
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<tr>
<td>52.573</td>
<td>Psychoanalysis —Freud and Lacan</td>
<td>II</td>
<td>½</td>
<td>S2</td>
<td>Level II status in Philosophy**</td>
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<tr>
<td>52.583</td>
<td>Theories, Value and Education</td>
<td>II</td>
<td>½</td>
<td>S1</td>
<td>Level II status in Philosophy**</td>
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</table>

**Level II status in Philosophy consists in 1 being in second or later year of university study, and 2 having taken and passed at least one Level I Philosophy half-unit. If the unit is composed of two half-units, these must have been passed in the same session. This prerequisite may be waived in certain cases by the School.
## Table 3

**Special subjects available in Program 10.1 and 10.2 in the Mathematics Education Course (4070)**

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Level</th>
<th>Unit</th>
<th>When Offered</th>
<th>Hipw</th>
<th>Prerequisites</th>
<th>Co-requisites</th>
<th>Specific Programs</th>
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<tr>
<td>3.114</td>
<td>Chemical Engineering Principles 1</td>
<td>II</td>
<td>1</td>
<td>F</td>
<td>2S1</td>
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<td></td>
<td>1001</td>
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<tr>
<td>3.128</td>
<td>Chemical Engineering Principles 2</td>
<td>III</td>
<td>1</td>
<td>F</td>
<td>3S1</td>
<td>3.114</td>
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<td>1001</td>
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<tr>
<td>14.501</td>
<td>Accounting and Financial Management IA</td>
<td>I</td>
<td>1</td>
<td>S1</td>
<td>4</td>
<td></td>
<td></td>
<td>1001</td>
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<tr>
<td>14.522</td>
<td>Accounting and Financial Management IIA</td>
<td>II</td>
<td>1</td>
<td>S1</td>
<td>4</td>
<td>14.511</td>
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<td>1001</td>
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<tr>
<td>14.542</td>
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<td>II</td>
<td>1</td>
<td>S2</td>
<td>4</td>
<td>14.511</td>
<td></td>
<td>1001</td>
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<td>14.602</td>
<td>Information Systems IIA</td>
<td>II</td>
<td>1</td>
<td>S1</td>
<td>3</td>
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<td>1001</td>
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<td>14.603</td>
<td>Information Systems IIB</td>
<td>II</td>
<td>1</td>
<td>S2</td>
<td>3</td>
<td>14.602</td>
<td></td>
<td>1001</td>
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<tr>
<td>14.613</td>
<td>Business Finance</td>
<td>II</td>
<td>1</td>
<td>S2</td>
<td>3</td>
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<tr>
<td>15.002</td>
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<td>II</td>
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<td>S1</td>
<td>4</td>
<td>15.011</td>
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<tr>
<td>15.022</td>
<td>Economics IIB</td>
<td>II</td>
<td>1</td>
<td>S2</td>
<td>4</td>
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<tr>
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<td>II</td>
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<td>S2</td>
<td>4</td>
<td>15.011</td>
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<td>1001</td>
</tr>
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</table>

For Table 4 see next page
### Table 4

#### Level IV Science units offered in the Science Education Course (4080)

A student planning to complete a program involving any unit/units from this table must seek the approval of the Head of the School in which the unit is taught.

<table>
<thead>
<tr>
<th>No</th>
<th>Name</th>
<th>Level</th>
<th>Unit Value</th>
<th>When Offered</th>
<th>Prerequisites$^\dagger$ years 1, 2, 3 and 4 in</th>
<th>Number of Level III Units Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.104</td>
<td>Physics IV (Honours)</td>
<td>IV</td>
<td>8 F</td>
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<td>Program 0105 or 0101, 0103</td>
<td>6</td>
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<tr>
<td>1.304</td>
<td>Applied Physics IV (Honours)</td>
<td>IV</td>
<td>8 F</td>
<td></td>
<td>Program 0105 or 0101, 0103</td>
<td>6</td>
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<tr>
<td>1.504</td>
<td>Theoretical Physics IV (Honours)</td>
<td>IV</td>
<td>F</td>
<td></td>
<td>Program 0105, 0101</td>
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<tr>
<td>2.004</td>
<td>Chemistry IV</td>
<td>IV</td>
<td>10 F</td>
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<td>Program 0201</td>
<td>7</td>
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<tr>
<td>25.404</td>
<td>Geology IV</td>
<td>IV</td>
<td>10 F</td>
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<td>Program 2501, 2502</td>
<td>8</td>
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<tr>
<td>41.103</td>
<td>Biochemistry IV</td>
<td>IV</td>
<td>10 F</td>
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<td>Program 4101, 4144</td>
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<tr>
<td>43.103</td>
<td>Botany</td>
<td>IV</td>
<td>10 F</td>
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<td>Program 4301 or 4302</td>
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<td>43.106</td>
<td>General Microbiology</td>
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<td>2 S1</td>
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<td>Program 4401, 4404 or 4144</td>
<td>7</td>
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<tr>
<td>44.523</td>
<td>Applied Microbiology</td>
<td>IV</td>
<td>2 S1</td>
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<tr>
<td>44.533</td>
<td>Immunology</td>
<td>IV</td>
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<td>44.543</td>
<td>Virology</td>
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<tr>
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<tr>
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<td>45.103</td>
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<td>IV</td>
<td>10 F</td>
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<td>Program 4501, 4504 or 4503</td>
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<tr>
<td>73.013</td>
<td>Physiology IV</td>
<td>IV</td>
<td>10 F</td>
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<td>Program 7301</td>
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</table>

$^\dagger$ Students are required to complete the prerequisite program with better than passing grades in the relevant subjects studied. In all cases a student considering proceeding to Level IV studies should seek the guidance of the Head of the appropriate School at an early stage of study to ensure that the program being followed is best suited to lead into the Level IV units and that special prerequisites are complied with.
Table 5

Level IV Mathematics subjects offered in the Mathematics Education Course (4070)

A student planning to complete a program involving any subject from this table must seek the approval of the Head of the School of Mathematics.

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Level</th>
<th>Unit Value</th>
<th>When Offered</th>
<th>Prerequisites§</th>
<th>Years 1, 2, 3 and 4 in</th>
<th>Number of Level III Units Required</th>
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<tr>
<td>10.123</td>
<td>Pure Mathematics Honours</td>
<td>IV</td>
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<td>F</td>
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<td>IV</td>
<td>10</td>
<td>F</td>
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<td>10.323</td>
<td>Theory of Statistics Honours</td>
<td>IV</td>
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<td>F</td>
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<td>10.423</td>
<td>Theoretical Mechanics Honours</td>
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<td>10</td>
<td>F</td>
<td>*Program 1001 or 1012</td>
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</table>

§ Students are required to complete the prerequisite program with better than passing grades in the relevant units studied. In all cases a student considering proceeding to Level IV studies should seek the guidance of the Head of the appropriate School at an early stage of study to ensure that the program being followed is best suited to lead into the Level IV units and that special prerequisites are complied with.

* Higher level units of Mathematics must be included in Years 1, 2, 3 and 4, in order to comply with the prerequisites for admission to Level IV Mathematics. Since entry to fourth year is only with approval of the Head of School, students should discuss their third year program with a Professor of the Department concerned. In special circumstances additional prerequisites may be required, or some of those listed may be waived.

The School of Health Administration, which was founded in 1956 with a grant from the W.K. Kellogg Foundation, offers both undergraduate and graduate programs. The undergraduate course may be taken on a full-time, part-time, or a part-time (external) basis and leads to the award of Bachelor of Health Administration. The School also offers one formal course in health administration leading to the award of Bachelor of Health Planning and another to the degree of Master of Health Administration. In addition, the Master’s degree course and the degree course of Doctor of Philosophy may be taken following periods of full-time or part-time research in hospital and health service administration.

Because the Bachelor’s course has been revised extensively, a student enrolled prior to 1978, who has passed in four or more subjects, shall satisfy the requirements for the degree by completing a total of 18 subjects including all subjects listed under Compulsory Subjects, see later.

Bachelor of Health Administration

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

1. A candidate for the degree of Bachelor of Health Administration shall:
   (1) comply with the requirements for admission;
   (2) follow the prescribed course of study in the School of Health Administration and satisfy the examiners in the necessary subjects.

2. A student who is following the prescribed course of study as a part-time (external) student shall in each year attend the residential school conducted by the School of Health Administration.

3. (1) A student enrolled in the part-time (external) course shall not normally be permitted to enrol in more than three subjects in any one year.
   (2) A student enrolled in the full-time course shall not normally be permitted to enrol in more than six subjects in any one year.
### Bachelor of Health Administration BHA

#### Full-time Course

**Year 1**

<table>
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<td>S1</td>
<td>S2</td>
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<tr>
<td>16.111</td>
<td>Health Care Systems</td>
<td>4</td>
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<tr>
<td>16.711</td>
<td>Quantitative Methods I</td>
<td>4</td>
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<td>14.013</td>
<td>Accounting for Health Administration I</td>
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#### Year 2

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<td>16.712</td>
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<td>16.021</td>
<td>Management I</td>
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#### Year 3

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<td>16.601</td>
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<td>16.411</td>
<td>Health Service Planning I</td>
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<td>16.412</td>
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<td>16.602</td>
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**Part-time (External) Course**

**Stage 1**

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<td>Health Care Systems</td>
<td>4</td>
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<td>14.014</td>
<td>Accounting for Health Administration I</td>
<td>4</td>
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<td>16.011</td>
<td>Health Service Agency Management</td>
<td>4</td>
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</tbody>
</table>

**Stage 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.112</td>
<td>Health &amp; Health Care</td>
<td>4</td>
</tr>
<tr>
<td>16.711</td>
<td>Quantitative Methods I</td>
<td>4</td>
</tr>
<tr>
<td>16.501</td>
<td>Economics (Health Administration)</td>
<td>4</td>
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</table>

**Stage 3**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
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</thead>
<tbody>
<tr>
<td>16.201</td>
<td>Law I</td>
<td>4</td>
</tr>
<tr>
<td>16.712</td>
<td>Quantitative Methods II</td>
<td>4</td>
</tr>
<tr>
<td>16.021</td>
<td>Management I</td>
<td>4</td>
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</tbody>
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**Stage 4**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
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<tbody>
<tr>
<td>14.024</td>
<td>Accounting for Health Administration II</td>
<td>4</td>
</tr>
<tr>
<td>16.022</td>
<td>Management II</td>
<td>4</td>
</tr>
<tr>
<td>16.202</td>
<td>Law II</td>
<td>4</td>
</tr>
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**Stage 5**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.411</td>
<td>Health Service Planning I</td>
<td>4</td>
</tr>
<tr>
<td>16.601</td>
<td>Behavioural Science I</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>4</td>
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</tbody>
</table>

**Stage 6**

<table>
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<th>Course Title</th>
<th>Hours per week</th>
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</thead>
<tbody>
<tr>
<td>16.412</td>
<td>Health Service Planning II</td>
<td>4</td>
</tr>
<tr>
<td>16.602</td>
<td>Behavioural Science II</td>
<td>4</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

* Equivalent of 4 weeks (28 days) during the year by weekly and/or block attachments
Compulsory Subjects

Compulsory subjects required for award of the BHA degree for students who had completed four or more subjects prior to 1978.

14.013 Accounting for Health Administration I
or 14.014 AHAI
14.023 Accounting for Health Administration II
or 14.024 AHAI
16.001 Management I or 16.021 Management I
16.002 Management 2 or 16.712 Quantitative Methods II
16.003 Management 3 or 16.022 Management 2
16.701 Statistics or
16.711 Quantitative Methods I
16.801 Australian Health Care System or
16.111 Health Care Systems
16.201 Law I
16.202 Law II
16.501 Economics (Health Administration)
16.921 Health Care Planning I or
16.112 Health & Health Care
16.922 Health Care Planning II or
16.411 Health Service Planning I
16.923 Health Care Planning III or
16.412 Health Service Planning II
16.601 Behavioural Science I
16.602 Behavioural Science II

Elective Subjects

Electives are to be chosen by the student in consultation with the Head of the School of Health Administration, from the subjects offered by the School of Health Administration and such other schools as are deemed appropriate. The approval of the relevant Head of School is required to undertake a subject offered by another school.

The following subjects have been approved as electives in the School of Health Administration:

16.101 Comparative Health Care Systems
16.301 Political Science
16.302 Social Administration
16.303 Research & Evaluation Methods
16.304 Management Skills
16.305 Health Economics
16.306 Administration of Nursing Services
16.307 Special Topic in Health Administration
16.308 Epidemiology for Health Administrators

Not all these electives will necessarily be offered every year.

Note: Permission from the Head of School must be obtained for any departure from the sequence of courses set out under the Full-time and Part-time (external) course patterns above.

School of Librarianship

Head of School
Professor M. Weinstock
Administrative Assistant
Ray Locke

The School of Librarianship offers graduate courses only leading to the award of the degree of Master of Librarianship (MLib), the Diploma in Librarianship (Diplib) and the Diploma in Archives Administration (DipArchivAdmin). For full information see Graduate Study later in this handbook.

School of Social Work

Head of School
Professor R.J. Lawrence
Administrative Assistant
Audrey Ferguson

At the undergraduate level, the school of Social work offers a course leading to the award of the degree of Bachelor of Social Work. At the graduate level the School offers courses leading to the award of the degrees of Doctor of Philosophy and the Master of Social Work (MSW) by course work, or by research. (For information on these graduate degrees, see Graduate Study and Conditions for the Award of Higher Degrees later in this handbook.

4030 Social Work Degree Course

Bachelor of Social Work
BSW

Professional social work is a world-wide occupation and discipline concerned with helping individuals, families, groups, organizations, communities, and societies, to deal with social problems, and to develop more satisfying and equitable social conditions generally.

The BSW degree course is designed to prepare students for the professional practice of social work. It is expected to be undertaken as a four-year full-time program. The Head of School may, however, permit a student who is unable to study full-time to take the course over a longer period not exceeding seven years.
The aim is to produce a social worker who has a sound general foundation for continuing professional learning, and can undertake independent professional practice at a basic level of competence, utilizing relevant knowledge and skills in accordance with the profession's values.

This aim is achieved through developing the student's understanding of:

- normative and factual aspects of the various social systems (political, economic, and social) in which people live their lives. This involves teaching materials which give insights into what values people hold, how they attain them, and competing views of what ought to be the situation.

- the nature and extent of social problems and social conditions for people at different stages of the life cycle and in various socio-economic, psycho-social, biological, and geographic circumstances.

- policies and services, and various 'helping' occupations, specifically created and maintained to enhance the well-being of people within their society.

- the development of social work as an organized occupation: its history; its relationship to its society; its relationships to social welfare systems and to other 'helping' occupations; its composition and organization; its various tasks and the knowledge and skills necessary to undertake them; and its new directions for development.

In this first professional qualification the student learns a generic or unitary approach to social work practice, but in the final year the student also has the opportunity to choose major and minor concentrations from amongst the social work methods of social case work, social group work, community work, and social welfare administration.

Field Education

An integral aspect of the course is organized learning in the field and this is a basic requirement for the professional recognition of the degree. In the field education subjects: Social Work Practice IIA, Social Work Practice IIB, and Social Work Practice IIIB, a field instructor, usually in a social agency, is responsible for a student learning to apply the principles of professional practice in an actual practice setting. From halfway through second year, a total of 170 seven-hour days are taken up in this way. About half of these days are scheduled during academic recess periods. A student's four field education placements are in more than one type of practice setting. The settings available include medical, psychiatric, community health, local community, family and child welfare, education, services to handicapped groups, services to the aged, services to migrants, income security, and corrective services. Non-government social agencies and agencies at all levels of government are utilized.

The widening range of social work tasks and roles means that a variety of people are suited for social work practice. However, all forms of professional social work require interpersonal skills, a disciplined mind, and adherence to the profession's community service ethic, and social work often involves working with people and organizations under stress and in situations where there is conflict.

Admission to the Course

Students should note that lack of facilities has caused restriction on entry to the course.

Progression

Except with the permission of the Head of School, a student may not proceed to the next year of the course until the student has fulfilled all the requirements of the previous year.

Honours

An Honours degree is awarded for superior performance throughout the course, with greater weight being given to later years. The classes and divisions of honours are: Class 1; Class 2, Division 1; Class 2, Division 2.

4030
Social Work—Full-time Course
Bachelor of Social Work
BSW

Year 1

<table>
<thead>
<tr>
<th>Hours per week**</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td><strong>S1</strong></td>
</tr>
<tr>
<td>--------</td>
</tr>
</tbody>
</table>

- 12.001 Psychology I | 5 | 5 |
- 53.001 Introduction to Sociology | 3 | 3 |
- 63.123 Australian Social Organization and two first level units approved as counting towards the BA degree | 3 | 3 |

Year 2

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>63.203 Human Behaviour I</td>
</tr>
<tr>
<td>63.213 Social and Behavioural Science</td>
</tr>
<tr>
<td>63.242 Social Philosophy I</td>
</tr>
<tr>
<td>63.251 Social Welfare I</td>
</tr>
<tr>
<td>63.263 Social Work Practice IA</td>
</tr>
<tr>
<td>63.272 Social Work Practice IB</td>
</tr>
</tbody>
</table>

* 2-week block in the Midyear recess + 2 days a week (no recess) for second half of academic year up to and including Week 14. 40 days

** These are weekly averages for the Session
### Year 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>ECTs</th>
</tr>
</thead>
<tbody>
<tr>
<td>63.303</td>
<td>Human Behaviour II</td>
<td>3½</td>
<td>3½</td>
</tr>
<tr>
<td>63.332</td>
<td>Research Methods I</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>63.341</td>
<td>Social Philosophy II</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>63.353</td>
<td>Social Welfare II</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>63.363</td>
<td>Social Work Practice IIA</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>63.371</td>
<td>Social Work Practice IIB</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>General Studies elective</td>
<td>1½</td>
<td>1½</td>
</tr>
</tbody>
</table>

* 3-week block in February + 2 days a week (no recess) for Session 1. 45 days.

### Year 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>ECTs</th>
</tr>
</thead>
<tbody>
<tr>
<td>63.431</td>
<td>Research Methods II</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>63.453</td>
<td>Social Welfare III</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>63.463</td>
<td>Social Work Practice IIIA</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>63.473</td>
<td>Social Work Practice IIIB</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>63.483</td>
<td>The Social Work Profession</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>General Studies elective</td>
<td>1½</td>
<td>1½</td>
</tr>
</tbody>
</table>

* Part 1 8-week block in January and February. 40 days.

* Part 2 3-week block in the Midyear Recess + 2 days a week during Session 2 to end of Week 14. 45 days.
Graduate Study

Graduate Enrolment Procedures

All students enrolling in graduate courses should obtain a copy of the free booklet *Enrolment Procedures* 1979 available from 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.

Graduate Courses

The Faculty of Professional Studies consists of the Schools of Education, Health Administration, Librarianship and Social Work. Facilities are available in each of these Schools for research degrees leading to Master's or Doctor's degrees. In addition the following formal course Master's degrees are offered: Master of Counselling (Education); Master of Education; Master of Educational Administration; Master of Health Administration; Master of Health Planning; Master of Librarianship; and Master of Social Work. Courses for the award of a graduate diploma are available in archives administration, education and librarianship.

School of Education

The School of Education offers a one-year full-time course for graduates leading to the Diploma in Education (DipEd) and also courses leading to the degrees of Master of Education (MEd), Master of Counselling (Education) (MCouns(Ed)) and Master of Educational Administration (MEdAdmin).

5560
Diploma in Education Course
Diploma in Education
DipEd

Since 1966 a course leading to the award of the Diploma in Education (DipEd) has been available to graduates from the University or other approved universities. The one-year full-time Graduate Diploma course is designed to give professional training in education to graduate students, but it is also possible for this course to be taken over two years, and in some circumstances over three years, on a part-time basis. The course includes lecture-seminars and associate group activities, individual assignments, observations of teaching methods and practice teaching.

Re-enrolment in Diploma in Education

A candidate who fails in half or more of his subjects will not be permitted to re-enrol unless the Higher Degree Committee of the Board of Professional Studies grants permission because it considers the circumstances to be exceptional.
Session 1

Education Subjects

The first three subjects are core subjects of equal weight, and students are required to satisfy in each.

<table>
<thead>
<tr>
<th>Hours per week</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>58.001</td>
<td>Educational Psychology</td>
</tr>
<tr>
<td>58.002</td>
<td>Philosophy of Education</td>
</tr>
<tr>
<td>58.003</td>
<td>Sociology of Education</td>
</tr>
</tbody>
</table>

Method and Curriculum Studies

Students are required to satisfy in each of two method subjects, or in one double method subject. Subjects are of equal weight, except that a double method subject has twice the weight of a single subject. These subjects are listed below.

<table>
<thead>
<tr>
<th>Hours per week</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>58.021</td>
<td>Commerce/Economics Method</td>
</tr>
<tr>
<td>58.022</td>
<td>English Method—Single</td>
</tr>
<tr>
<td>58.023</td>
<td>English Method—Double</td>
</tr>
<tr>
<td>58.024</td>
<td>French Method</td>
</tr>
<tr>
<td>58.025</td>
<td>Geography Method</td>
</tr>
<tr>
<td>58.026</td>
<td>German Method</td>
</tr>
<tr>
<td>58.027</td>
<td>History Method</td>
</tr>
<tr>
<td>58.028</td>
<td>Industrial Arts Method—Double</td>
</tr>
<tr>
<td>58.029</td>
<td>Library Method</td>
</tr>
<tr>
<td>58.030</td>
<td>Mathematics Method—Single</td>
</tr>
<tr>
<td>58.031</td>
<td>Mathematics Method—Double</td>
</tr>
<tr>
<td>58.032</td>
<td>Science Method—Single</td>
</tr>
<tr>
<td>58.033</td>
<td>Science Method—Double</td>
</tr>
<tr>
<td>58.034</td>
<td>Slow Learner Method</td>
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<tr>
<td>58.035</td>
<td>Social Science Method</td>
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<td>58.036</td>
<td>Spanish Method</td>
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</tbody>
</table>

Electives

Electives are offered in one or more of the Education subjects, and in one or more of the Method and Curriculum studies, to meet the differing professional needs and interests of students with varying backgrounds.

<table>
<thead>
<tr>
<th>58.004</th>
<th>Electives</th>
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Practical Subjects

<table>
<thead>
<tr>
<th>58.051</th>
<th>Practice Teaching</th>
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</thead>
<tbody>
<tr>
<td>58.052</td>
<td>Applied Studies in Teaching Practice</td>
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</table>

Session 2

<table>
<thead>
<tr>
<th>Hours per week</th>
<th>Equivalent hours for 14 weeks</th>
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<tbody>
<tr>
<td>58.005†</td>
<td>Education Options</td>
</tr>
<tr>
<td>58.037††</td>
<td>Advanced Method and Curriculum Studies</td>
</tr>
<tr>
<td>58.051</td>
<td>Practice Teaching</td>
</tr>
<tr>
<td>58.052</td>
<td>Applied Studies in Teaching</td>
</tr>
<tr>
<td>58.004</td>
<td>Electives</td>
</tr>
</tbody>
</table>

(See next column)

(5½ hours per day for 20 days averaged over 14 weeks).

Total equivalent hours per week for one year: approximately 19

* In Session 2 lectures are of 10 weeks duration following four weeks of full-time practice teaching.

† Choices of options are restricted by excluding particular combinations to prevent content overlap. Normally, students are required to take one option from each of the three areas of Educational Psychology, Philosophy of Education and Sociology of Education. This requirement may be varied at the discretion of the Head of School with respect to students who have completed two or more years of undergraduate study at one year with a graded pass, in one of the above areas.

‖ A flexible arrangement of studies is offered, which may include method options.

2990
Master of Education (Honours) Course

8910
Master of Education Course

Master of Education MEd

The conditions for the award of the Master of Education degree are set out under Conditions for the Award of Higher Degrees in this handbook. The course is designed for educationists who wish to study education at an advanced level and may be taken at two levels: pass and honours.

The Pass degree is taken either by subjects to the value of eight units together with a report on a project, or alternatively by subjects to the value of ten units. Applicants for registration for the honours degree are normally expected to satisfy in subjects to the value of four units at a suitable standard, and to submit a thesis. Alternatively students without an honours degree in Education (or other relevant subject) may apply for registration after completing subjects to the value of eight units at a suitable standard, but this condition may be varied in exceptional cases. Such students transferring from Pass to Honours registration will then complete the degree by means of a thesis.
## Miscellaneous Subjects

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>58.201G</td>
<td>Comparative Education</td>
<td>2</td>
</tr>
<tr>
<td>58.202G</td>
<td>Educational Planning and Administration</td>
<td>2</td>
</tr>
<tr>
<td>58.204G</td>
<td>Educational Theory in the Twentieth Century</td>
<td>2</td>
</tr>
<tr>
<td>58.206G</td>
<td>History of Education</td>
<td>2</td>
</tr>
<tr>
<td>58.212G</td>
<td>Mathematics Education</td>
<td>2</td>
</tr>
<tr>
<td>58.215G</td>
<td>Social Sciences Education</td>
<td>2</td>
</tr>
<tr>
<td>58.219G</td>
<td>Educational Research I</td>
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</tr>
<tr>
<td>58.220G</td>
<td>Educational Research II*</td>
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</tr>
<tr>
<td>58.223G</td>
<td>Research Design I</td>
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</tr>
<tr>
<td>58.224G</td>
<td>Research Design II*</td>
<td>1</td>
</tr>
<tr>
<td>58.225G</td>
<td>Multivariate Analysis in Educational Research A*</td>
<td>1</td>
</tr>
<tr>
<td>58.226G</td>
<td>Multivariate Analysis in Educational Research B*</td>
<td>1</td>
</tr>
<tr>
<td>58.227G</td>
<td>Educational Research III*</td>
<td>1</td>
</tr>
<tr>
<td>58.228G</td>
<td>Educational Research IV*</td>
<td>1</td>
</tr>
<tr>
<td>58.230G</td>
<td>Project</td>
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## Philosophy of Education Subjects

<table>
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<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>58.254G</td>
<td>The Philosophy of Mind and Educational Theory</td>
<td>2</td>
</tr>
<tr>
<td>58.256G</td>
<td>Moral Education I</td>
<td>1</td>
</tr>
<tr>
<td>58.257G</td>
<td>Moral Education II*</td>
<td>1</td>
</tr>
<tr>
<td>58.258G</td>
<td>Philosophy of the Curriculum I*</td>
<td>1</td>
</tr>
<tr>
<td>58.259G</td>
<td>Philosophy of the Curriculum II*</td>
<td>1</td>
</tr>
<tr>
<td>58.284G</td>
<td>Philosophy of Science Education*</td>
<td>1</td>
</tr>
<tr>
<td>58.285G</td>
<td>Philosophy of Literary Education I</td>
<td>1</td>
</tr>
<tr>
<td>58.266G</td>
<td>Philosophy of Literary Education II*</td>
<td>1</td>
</tr>
<tr>
<td>58.267G</td>
<td>Philosophy of History Education I</td>
<td>1</td>
</tr>
<tr>
<td>58.268G</td>
<td>Philosophy of History Education II*</td>
<td>1</td>
</tr>
<tr>
<td>58.269G</td>
<td>Philosophy of Maths Education I</td>
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<tr>
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<td>Philosophy of Maths Education II*</td>
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</tr>
<tr>
<td>58.271G</td>
<td>Philosophy of Language Education I</td>
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</tr>
<tr>
<td>58.272G</td>
<td>Philosophy of Language Education II*</td>
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</tr>
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<td>58.273G</td>
<td>Philosophy of Social Science Education I</td>
<td>1</td>
</tr>
<tr>
<td>58.274G</td>
<td>Philosophy of Social Science Education II*</td>
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## Sociology of Education Subjects

<table>
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<th>Code</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>58.305G</td>
<td>The Role of Education in Society A</td>
<td>1</td>
</tr>
<tr>
<td>58.306G</td>
<td>The Role of Education in Society B</td>
<td>1</td>
</tr>
<tr>
<td>58.311G</td>
<td>Mathematical Applications in the Sociology of Education A</td>
<td>1</td>
</tr>
<tr>
<td>58.312G</td>
<td>Mathematical Applications in the Sociology of Education B*</td>
<td>1</td>
</tr>
<tr>
<td>58.313G</td>
<td>Sociology of Australian Education A</td>
<td>1</td>
</tr>
<tr>
<td>58.314G</td>
<td>Applied Sociological Research</td>
<td>1</td>
</tr>
<tr>
<td>58.315G</td>
<td>Sociology of Australian Education B</td>
<td>1</td>
</tr>
<tr>
<td>58.316G</td>
<td>Advanced Sociology of Australian Education*</td>
<td>1</td>
</tr>
<tr>
<td>58.317G</td>
<td>Sociological Theory with Special Reference to Education A</td>
<td>1</td>
</tr>
<tr>
<td>58.318G</td>
<td>Sociological Theory with Special Reference to Education B</td>
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## Science Education Subjects

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<tr>
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<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>58.330G</td>
<td>General Issues in Science Education</td>
<td>2</td>
</tr>
<tr>
<td>58.331G</td>
<td>The Development of Scientific Concepts*</td>
<td>1</td>
</tr>
<tr>
<td>58.332G</td>
<td>Evaluation in Science Education*</td>
<td>1</td>
</tr>
<tr>
<td>58.333G</td>
<td>Primary Science Education*</td>
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<tr>
<td>58.334G</td>
<td>The Nature of Science and Science Education*</td>
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<tr>
<td>58.335G</td>
<td>Curriculum Development in Science*</td>
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<tr>
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<tr>
<td>58.337G</td>
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## Educational Psychology Subjects

<table>
<thead>
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<tbody>
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<tr>
<td>58.361G</td>
<td>Introduction to Child Growth and Development</td>
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<tr>
<td>58.362G</td>
<td>Child Growth and Development*</td>
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<tr>
<td>58.363G</td>
<td>Cognitive Development and Classroom Learning*</td>
<td>1</td>
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<tr>
<td>58.364G</td>
<td>Instructional Technology*</td>
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<tr>
<td>58.365G</td>
<td>Motivation and Attitudes in School Settings*</td>
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</tr>
<tr>
<td>58.366G</td>
<td>History of Educational Psychology*</td>
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</tr>
<tr>
<td>58.367G</td>
<td>Contemporary Issues in Educational Psychology*</td>
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</tr>
<tr>
<td>58.368G</td>
<td>Psychology, History and Literature*</td>
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<tr>
<td>58.371G</td>
<td>Advanced Developmental Psychology in Educational Behavioural Settings*</td>
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<tr>
<td>58.372G</td>
<td>Learning Theory and Classroom Instruction*</td>
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<tr>
<td>58.373G</td>
<td>Behaviour Modification in the Classroom and School Setting*</td>
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<td>Social Learning and Education*</td>
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<td>58.375G</td>
<td>Psychophysiology in the Classroom*</td>
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<tr>
<td>58.377G</td>
<td>Personality Development and Counselling Techniques in Education*</td>
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<tr>
<td>58.378G</td>
<td>The Role of the School Psychologist*</td>
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<tr>
<td>58.379G</td>
<td>Exceptional Children in the Classroom*</td>
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<td>Exceptional Children—Language Disabilities*</td>
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<td>58.382G</td>
<td>Advanced Exceptional Children B*</td>
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<td>58.383G</td>
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<td>Computer-Assisted Instruction II*</td>
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<td>58.385G</td>
<td>Cognitive Development in Children and Adolescents</td>
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<tr>
<td>58.386G</td>
<td>Applying Experimental Psychology in Education*</td>
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</tr>
</tbody>
</table>

* Information on prerequisites and/or co-requisites is contained in the section Subject Descriptions.

### Note:

1. A one-unit subject is of 2 hours per week for one session. A two-unit subject is of 2 hours per week for two sessions. The project report has the value of two units.
2. Candidates with appropriate Honours degrees may be registered for the degree of Master of Education at honours level (MEd(Hons)) at initial enrolment. Their program is subject to the value of four units and a research thesis. (Such candidates will lose Honours registration after completion of these subjects if the standard attained is considered unsatisfactory by the Higher Degree Committee).

3. Candidates who have the Higher Degree Committee's approval to transfer from the pass level (MEd) to the honours level (MEd(Hons)) in the Master of Education degree course after completion of subjects to the value of eight units are reminded of the conditions governing maximum time.

2940

Master of Counselling (Education) (Honours) Course*

8950

Master of Counselling (Education) Course*

Master of Counselling
MCouns(Ed)

The conditions for the award of Master of Counselling (Education) are set out under Conditions for the Award of Higher Degrees later in this handbook. The course is designed for educationists with a psychological background who wish to study counselling at an advanced level and may be taken at two levels, pass and honours. The pass degree is generally taken by completing the eight subjects listed, together with a project. Applicants for the honours degree are expected to satisfy in all subjects listed at a higher standard than pass, and to submit a thesis. Honours candidates who enter the course with a prior honours degree in Psychology or Education may be exempted from certain subjects.

8960

Master of Educational Administration
MEdAdmin

The Conditions for the Award of Master of Educational Administration are set out under Conditions for the Award of Higher Degrees later in this handbook.

The Master of Educational Administration degree course is intended to contribute to the preparation of teachers for administrative positions in schools as well as to serve the needs of educational administrators at a variety of other levels.

Course work is supplemented with occasional week-end or week long residentials focussing on selected topics in administration. A feature of the course is a range of electives to build on particular interests developed from core studies or from particular background experiences of individual students.

The degree of Master of Educational Administration may be taken at honours level by research, and selected students have the opportunity to proceed to the degree of Doctor of Philosophy by research.

Candidates for the degree are normally required to take subjects to the value of fourteen units. Honours candidates must attain a suitable standard in course work as well as submitting a thesis.

Compulsory Subjects

Total value 10 units

<table>
<thead>
<tr>
<th>Units</th>
<th>Subjects</th>
</tr>
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<tr>
<td>58.501G</td>
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</tr>
<tr>
<td>58.502G</td>
<td>Communication Theory and Theory of Human Relations</td>
</tr>
<tr>
<td>58.503G</td>
<td>Personnel in Educational Organizations</td>
</tr>
<tr>
<td>58.504G</td>
<td>Planning and Policy-Making in Education</td>
</tr>
<tr>
<td>58.505G</td>
<td>The Australian Education System</td>
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<tr>
<td>58.506G</td>
<td>Research Methods in Educational Administration</td>
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Elective Subjects
4 units to be completed

<table>
<thead>
<tr>
<th>Units</th>
<th>Subjects</th>
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<tbody>
<tr>
<td>58.520G</td>
<td>Adult Education in Australia*</td>
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<tr>
<td>58.521G</td>
<td>Aspects of Administration in Tertiary Institutions</td>
</tr>
<tr>
<td>58.522G</td>
<td>Change in Education</td>
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<tr>
<td>58.523G</td>
<td>Comparative Educational Systems</td>
</tr>
<tr>
<td>58.524G</td>
<td>Economics of Education</td>
</tr>
<tr>
<td>58.525G</td>
<td>Ethical Issues Relating to Educational Administration</td>
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<td>58.526G</td>
<td>History of Educational Administration in Australia</td>
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<tr>
<td>58.527G</td>
<td>Legal Aspects of Educational Administration</td>
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<tr>
<td>58.528G</td>
<td>Planning Techniques</td>
</tr>
<tr>
<td>58.529G</td>
<td>Politics of Education</td>
</tr>
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</table>

* This course has been approved but a decision as to when it will commence has not yet been made. Please check with the School office.
School of Health Administration

The School of Hospital Administration was founded in 1956 with a grant from the W.K. Kellogg Foundation primarily to provide graduate education and training in hospital administration. In 1969 the name was changed to School of Health Administration in accord with its broader objectives in teaching and research. It serves the needs of hospitals and health services throughout Australia but overseas candidates may also be admitted.

The School provides one formal graduate course leading to the award of the degree of Master of Health Planning, and another leading to the award of the degree of Master of Health Administration. In addition, the Master's degree and the degree of Doctor of Philosophy may be taken following periods of full-time or part-time research in hospital and health service administration.

Master of Health Administration

The conditions for the award of the degree of Master of Health Administration are set out under Conditions for the Award of Higher Degrees later in this handbook.

2960

Master of Health Administration
(By Research)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
</tr>
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<tbody>
<tr>
<td>16.930G</td>
<td>Introduction to Health Planning</td>
<td>2</td>
</tr>
<tr>
<td>16.932G</td>
<td>Health Services Law I</td>
<td>2</td>
</tr>
<tr>
<td>16.935G</td>
<td>Health Economics I</td>
<td>2</td>
</tr>
<tr>
<td>16.971G</td>
<td>Health Services Management II</td>
<td>2</td>
</tr>
<tr>
<td>16.972G</td>
<td>Introduction to Macroeconomics (Health)</td>
<td>1</td>
</tr>
<tr>
<td>16.990G</td>
<td>Research Project</td>
<td>2</td>
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<tr>
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Full-time Course*

Year 1

Session 1

<table>
<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
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<td>16.901G</td>
<td>Health Services Statistics I</td>
<td>2</td>
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<td>16.904G</td>
<td>Australian Health Care System</td>
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<tr>
<td>16.905G</td>
<td>Health Services Accounting</td>
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</tr>
<tr>
<td>30.935G</td>
<td>Organizational Behaviour A</td>
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<tr>
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Session II

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</thead>
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<td>3</td>
</tr>
<tr>
<td>16.902G</td>
<td>Health Services Statistics II</td>
<td>2</td>
</tr>
<tr>
<td>16.937G</td>
<td>Health Services Research &amp; Evaluation</td>
<td>2</td>
</tr>
<tr>
<td>16.970G</td>
<td>Health Services Management II</td>
<td>2</td>
</tr>
<tr>
<td>30.936G</td>
<td>Organizational Behaviour B</td>
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Year 2

Session I

<table>
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<td>16.930G</td>
<td>Introduction to Health Planning</td>
<td>2</td>
</tr>
<tr>
<td>16.933G</td>
<td>Health Services Law I</td>
<td>2</td>
</tr>
<tr>
<td>16.935G</td>
<td>Health Economics I</td>
<td>2</td>
</tr>
<tr>
<td>16.971G</td>
<td>Health Services Management II</td>
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<tr>
<td>16.972G</td>
<td>Introduction to Macroeconomics (Health)</td>
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</tr>
<tr>
<td>16.990G</td>
<td>Research Project</td>
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<tr>
<td>Electives**</td>
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<td>4</td>
</tr>
<tr>
<td>Total</td>
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</table>
**Master of Health Planning**

The School of Health Administration offers a Master of Health Planning degree for persons who have been employed in the health field for at least three years and who hold a degree, normally of at least four years' duration. (This course replaces the Graduate Diploma in Health Administration which is no longer offered).

The course is designed to provide the knowledge and skills required to undertake responsibilities for the planning of health services at the federal, state and regional levels. It is primarily intended for people who expect to hold positions with broad administrative and planning roles in the health services.

The degree is awarded on the successful completion of the following program. The course is normally taken by one year of full-time study, but applications for part-time enrolment will also be considered.

Conditions for the award of the degree of Master of Health Planning are set out under Conditions for the Award of Higher Degrees later in this handbook.

---

**8940 Master of Health Planning Course**

**Master of Health Planning (MHP)**

**Full-time Course**

**Session 1**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.930G</td>
<td>Introduction to Health Planning</td>
<td>2</td>
</tr>
<tr>
<td>16.931G</td>
<td>Introduction to Organization Theory</td>
<td>2</td>
</tr>
<tr>
<td>16.932G</td>
<td>Introduction to Behavioural Science</td>
<td>2</td>
</tr>
</tbody>
</table>

---

**School of Librarianship**

The School of Librarianship offers graduate courses leading to the degree of Master of Librarianship (MLib), the Diploma in Archives Administration (DipArchivAdmin) and the Diploma in Librarianship (DipLib).
## Master of Librarianship

The conditions governing the award of the degree of Master of Librarianship by research and by formal course work are set out under Conditions for the Award of Higher Degrees later in this handbook. As the University’s facilities are limited, admission may be competitive.

### 2980

**Master of Librarianship (By Research)**

**Master of Librarianship**
**MLib**

In addition to the thesis which represents 75% of the requirement, each candidate will complete the following two subjects to be taken in one year:

<table>
<thead>
<tr>
<th>Hours per session</th>
<th>S1</th>
<th>S2</th>
</tr>
</thead>
<tbody>
<tr>
<td>55.805G Issues in Librarianship</td>
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<td>28</td>
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<tr>
<td>55.807G Research Methods in Librarianship</td>
<td>42</td>
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</tbody>
</table>

### 8920

**Master of Librarianship (By Formal Course Work)**

**Master of Librarianship**
**MLib**

Advanced study in librarianship by formal course work is designed to provide education in broad areas of specialization beyond the basic professional level. The present programs of study provide a course for those who wish to specialize in Library Management and a course for those who wish to specialize in Information Science.

Candidates specializing in Library Management complete a program of study which may be taken on a full-time basis in one year and on a part-time basis over two years.

Candidates specializing in Information Science complete a program of study which may be taken on a part-time basis over two years.

In addition to the formal course work, each candidate is required to submit a report on a project (55.901G) involving individual study and investigation, the requirements of which represent 20% of the total course.

There may be occasional field excursions at times to be arranged.

## Full-time Course

### Library Management

<table>
<thead>
<tr>
<th>Hours per session</th>
<th>S1</th>
<th>S2</th>
</tr>
</thead>
<tbody>
<tr>
<td>30.935G Organization Behaviour A*</td>
<td>42</td>
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</tr>
<tr>
<td>30.936G Organization Behaviour B*</td>
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</tr>
<tr>
<td>30.941G Sociology of the Workforce*</td>
<td>42</td>
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</tr>
<tr>
<td>30.960G Technology and Organizations*</td>
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<td>42</td>
</tr>
<tr>
<td>55.805G Issues in Librarianship</td>
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<td>28</td>
</tr>
<tr>
<td>55.807G Research Methods in Librarianship</td>
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</tr>
<tr>
<td>55.811G Library and Information Services Management I</td>
<td>28</td>
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<tr>
<td>55.812G Library and Information Services Management II</td>
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</tr>
<tr>
<td>55.815G Economics of Information Systems</td>
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<tr>
<td>55.816G Information Processing Technology</td>
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</table>

*These subjects are undertaken within the Master of Commerce program.

## Part-time Course

### Library Management

**Year 1**

<table>
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<tr>
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<th>S1</th>
<th>S2</th>
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</thead>
<tbody>
<tr>
<td>30.935G Organization Behaviour A*</td>
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</tr>
<tr>
<td>30.936G Organization Behaviour B*</td>
<td>0</td>
<td>42</td>
</tr>
<tr>
<td>30.941G Sociology of the Workforce*</td>
<td>42</td>
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<tr>
<td>30.960G Technology and Organizations*</td>
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<tr>
<td>55.811G Library and Information Services Management I</td>
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<tr>
<td>55.812G Library and Information Services Management II</td>
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</table>

*These subjects are undertaken within the Master of Commerce program.

**Year 2**

<table>
<thead>
<tr>
<th>Hours per session</th>
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<th>S2</th>
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<tbody>
<tr>
<td>55.805G Issues in Librarianship</td>
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<td>28</td>
</tr>
<tr>
<td>55.807G Research Methods in Librarianship</td>
<td>42</td>
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</tr>
<tr>
<td>55.815G Economics of Information Systems</td>
<td>28</td>
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<td>55.816G Information Processing Technology</td>
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Part-time Course

Information Science

Year 1

<table>
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<tr>
<td>55.817G</td>
<td>35</td>
<td>28</td>
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</table>

* This subject is undertaken within the Master of Commerce program.
** This subject is taught by the School of Electrical Engineering.

Year 2

<table>
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<td>55.821G</td>
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<td>28</td>
</tr>
<tr>
<td>55.901G</td>
<td>0</td>
<td>28</td>
</tr>
</tbody>
</table>

* This subject is undertaken within the Master of Commerce program.

Note: Candidates specializing in Information Science will be required to demonstrate by the end of the first session for which they are enrolled their ability to write computer programs in a high level language and their understanding of descriptive statistics and ability to use inferential techniques at least to the level of elementary parametric hypothesis testing.

Graduate Diploma Courses

Progression in School's Graduate Diploma Courses

A candidate who fails in half or more of his subjects will not be permitted to re-enrol unless the Higher Degree Committee of the Faculty of Professional Studies grants permission because it considers the circumstances to be exceptional.

5590

Graduate Diploma Course in Librarianship

Diploma in Librarianship
DipLib

The Graduate Diploma course leading to the award of the Diploma in Librarianship is designed to provide university graduates with a basic education in librarianship and the opportunity to specialize. Candidates must hold a degree, other than in Librarianship, from the University of New South Wales or other approved university, and those enrolling in the two School Libraries subjects must also hold a Diploma in Education or a qualification accepted by the Higher Degree Committee of the Faculty of Professional Studies as equivalent. The University is unable at this stage to provide facilities for all eligible applicants, and admission is, therefore, competitive.

The course is a one-year full-time program.

The Course

The course is made up of five compulsory subjects, four optional subjects and an assignment on an approved topic. The selection of optional subjects must be approved by the Head of the School of Librarianship, and must generally include two from Group I and two from Group II (55.385 School Libraries I and 55.386 School Libraries II count as three subjects).

Full-time Course*‡

<table>
<thead>
<tr>
<th>Hours per session</th>
<th>S1</th>
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</thead>
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<td>55.114 Communication and Record</td>
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Optional †

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<tr>
<td>55.232 Subject Bibliography: The Social Sciences</td>
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<tr>
<td>55.233 Subject Bibliography: Pure and Applied Sciences</td>
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<tr>
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<td>55.238 Subject Bibliography: Government Publications</td>
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<tr>
<td>55.371 Literature for Young People</td>
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</table>

Group II

| 55.362 Mechanized Systems for Libraries | 0 | 28 |
5600
Graduate Diploma Course in Archives Administration

Diploma in Archives Administration DipArchivAdmin

The Graduate Diploma course leading to the award of the Diploma in Archives Administration is designed to provide education in the principles and methods of the administration of archives and allied materials, including current records and collections of manuscripts.

Candidates must hold a degree from the University of New South Wales or any other approved university. It is desirable that candidates have studied history and political science.

Each candidate will complete the program of study which may be taken as a full-time course in one year or as a part-time course over two years. Both are daytime courses.

In addition to formal course work there may be excursions to relevant institutions.

Full-time Course

<table>
<thead>
<tr>
<th>Hours per session</th>
<th>S1</th>
<th>S2</th>
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<tbody>
<tr>
<td>55.123 Reference Service and Materials</td>
<td>56</td>
<td>0</td>
</tr>
<tr>
<td>55.238 Subject Bibliography: Government Publications</td>
<td>0</td>
<td>28</td>
</tr>
<tr>
<td>55.712 Archives Theory and History</td>
<td>56</td>
<td>56</td>
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<tr>
<td>55.713 Archives Administration</td>
<td>56</td>
<td>98</td>
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<tr>
<td>55.714 Information Environment for Archivists</td>
<td>42</td>
<td>0</td>
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<td>and any one of</td>
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<tr>
<td>55.231 Subject Bibliography: The Humanities</td>
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<td>55.232 Subject Bibliography: The Social Sciences</td>
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<tr>
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<tr>
<td>55.236 Subject Bibliography: Law</td>
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Part-time Course

Year 1

<table>
<thead>
<tr>
<th>Hours per session</th>
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<tbody>
<tr>
<td>55.123 Reference Service and Materials</td>
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<td>0</td>
</tr>
<tr>
<td>55.238 Subject Bibliography: Government Publications</td>
<td>0</td>
<td>28</td>
</tr>
<tr>
<td>55.712 Archives Theory and History</td>
<td>56</td>
<td>56</td>
</tr>
<tr>
<td>55.231 Subject Bibliography: The Humanities</td>
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</tr>
<tr>
<td>55.232 Subject Bibliography: The Social Sciences</td>
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<td>28</td>
</tr>
<tr>
<td>55.233 Subject Bibliography: Pure and Applied Sciences</td>
<td>0</td>
<td>28</td>
</tr>
<tr>
<td>55.236 Subject Bibliography: Law</td>
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<td>28</td>
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Year 2

<table>
<thead>
<tr>
<th>Hours per session</th>
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</thead>
<tbody>
<tr>
<td>55.713 Archives Administration</td>
<td>56</td>
<td>98</td>
</tr>
<tr>
<td>55.714 Information Environment for Archivists</td>
<td>42</td>
<td>0</td>
</tr>
</tbody>
</table>

School of Social Work

The School of Social Work provides opportunities for graduate social work study leading to the award of the research degree of Doctor of Philosophy, the Master of Social Work (by Research) degree, and the Master of Social Work (by Formal Course Work) degree. The conditions for the award of these degrees are set out later in this handbook under Conditions for the Award of Higher Degrees.

2970
Master of Social Work (By Research)

Master of Social Work MSW

In addition to the theses, each candidate is required to complete the subjects 63.807G Social Policy Analysis and 63.814G Social Planning, usually in the first year of registration.
Master of Social Work
(By Formal Course Work)

This course is designed to prepare social workers for professional practice at an advanced level in interpersonal helping, community work, policy development and administration, and education. Each candidate specializes in one of these areas, depending upon her or his educational qualifications and experience. A common basis for advanced social work practice is provided through subjects covering recent developments in the social and behavioural sciences, the analysis of social policy and social planning, research methods, and contemporary social work practice theories.

In the final session of registration, each candidate, working on a part-time basis, undertakes and reports on a project which is related to social work practice.

Classes are scheduled in the evening. The course is normally taken on a part-time basis according to the following program.

Year 1 (Part-Time)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>63.800G</td>
<td>Advanced Social Work Practice — General I</td>
<td>2 S1 0 S2</td>
</tr>
<tr>
<td>63.806G</td>
<td>Social and Behavioural Science</td>
<td>3 S1 0 S2</td>
</tr>
<tr>
<td>63.810G</td>
<td>Advanced Social Work Practice — General II</td>
<td>0 S1 2 S2</td>
</tr>
<tr>
<td>63.815G</td>
<td>Social Work Research Methods</td>
<td>0 S1 3 S2</td>
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Year 2 (Part-Time)

<table>
<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>63.803G</td>
<td>Advanced Social Work Practice — Elective I</td>
<td>4 S1 0 S2</td>
</tr>
<tr>
<td>63.807G</td>
<td>Social Policy Analysis</td>
<td>2 S1 0 S2</td>
</tr>
<tr>
<td>63.813G</td>
<td>Advanced Social Work Practice — Elective II</td>
<td>0 S1 4 S2</td>
</tr>
<tr>
<td>63.814G</td>
<td>Social Planning</td>
<td>0 S1 2 S2</td>
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</table>

Year 3 (Part-Time)

<table>
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<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>63.821G</td>
<td>Project</td>
<td>10 S1 0 S2</td>
</tr>
<tr>
<td>63.822G</td>
<td>Project Seminar</td>
<td>2 S1 0 S2</td>
</tr>
</tbody>
</table>

A candidate may take this program over a shorter period with the approval of the Head of School.
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 Table (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: Faculty Table (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.

<table>
<thead>
<tr>
<th>Title</th>
<th>Abbreviation</th>
<th>Calendar/Handbook</th>
</tr>
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<tbody>
<tr>
<td>Doctor of Science</td>
<td>DSc</td>
<td>Calendar</td>
</tr>
<tr>
<td>Doctor of Letters</td>
<td>DLitt</td>
<td>Calendar</td>
</tr>
<tr>
<td>Doctor of Laws</td>
<td>LLD</td>
<td>Calendar</td>
</tr>
<tr>
<td>Doctor of Medicine in the Faculty of Medicine</td>
<td>MD</td>
<td>Calendar</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>PhD</td>
<td>Calendar and all faculties</td>
</tr>
<tr>
<td>Master of Applied Science</td>
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<td>Applied Science</td>
</tr>
<tr>
<td>Master of Architecture</td>
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<td>Higher Degrees</td>
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<tr>
<td>Master of Arts</td>
<td>MA(Hons)</td>
<td>Arts</td>
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<tr>
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<td>MA</td>
<td>Military Studies</td>
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<td></td>
<td></td>
<td>Arts</td>
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<td></td>
<td></td>
<td>Military Studies</td>
</tr>
<tr>
<td>Master of Biomedical Engineering</td>
<td>MBiomedE</td>
<td>Engineering</td>
</tr>
<tr>
<td>Master of Building</td>
<td>MBuild</td>
<td>Architecture</td>
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<tr>
<td>Master of Business Administration</td>
<td>MBA</td>
<td>AGSM</td>
</tr>
<tr>
<td>Master of Chemistry</td>
<td>MChem</td>
<td>Sciences*</td>
</tr>
<tr>
<td>Master of Commerce (Honours)</td>
<td>MCom(Hons)</td>
<td>Commerce</td>
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<td>Master of Commerce</td>
<td>MCom</td>
<td>Commerce</td>
</tr>
<tr>
<td>Master of Counselling (Education)</td>
<td>MCouns(Ed)</td>
<td>Professional Studies</td>
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<td>MEd</td>
<td>Professional Studies</td>
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<td>Master of Educational Administration</td>
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<td>Professional Studies</td>
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<tr>
<td>Master of Engineering</td>
<td>ME</td>
<td>Applied Science</td>
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<tr>
<td>Master of Engineering without Supervision</td>
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<td>Engineering</td>
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<tr>
<td>Master of Engineering Science</td>
<td>MEngSc</td>
<td>Military Studies</td>
</tr>
<tr>
<td>Master of General Studies</td>
<td>MGenStud</td>
<td>General Studies</td>
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<tr>
<td>Master of Health Administration</td>
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<td>Professional Studies</td>
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<td>Master of Health Personnel Education</td>
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<tr>
<td>Master of Health Planning</td>
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<td>Professional Studies</td>
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<td>Master of Landscape Architecture</td>
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<tr>
<td>Master of Laws by Research</td>
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<td>Law</td>
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<td>Master of Librarianship</td>
<td>MLib</td>
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<tr>
<td>Master of Mathematics</td>
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<td>Sciences*</td>
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<tr>
<td>Master of Optometry</td>
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</tr>
<tr>
<td>Master of Physics</td>
<td>MPhysics</td>
<td>Sciences*</td>
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<tr>
<td>Master of Psychology</td>
<td>MPsychoH</td>
<td>Sciences‡</td>
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<tr>
<td>Master of Public Administration</td>
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<td>Master of Science</td>
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<td>Applied Science</td>
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<td>Master of Science without Supervision</td>
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<td>Architecture</td>
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<tr>
<td>Master of Science (Acoustics)</td>
<td>MSc(Acoustics)</td>
<td>Sciences*</td>
</tr>
<tr>
<td>Master of Science and Society</td>
<td>MScSoc</td>
<td>Sciences*</td>
</tr>
<tr>
<td>Master of Science (Biotechnology)</td>
<td>MSc(Biotech)</td>
<td>Sciences‡</td>
</tr>
<tr>
<td>Master of Science (Building)</td>
<td>MSc(Building)</td>
<td>Architecture</td>
</tr>
</tbody>
</table>

For footnotes see end of Table on next page.
1. The degree of Doctor may be granted by the Council on the recommendation of the Professorial Board to a candidate who has made an original and significant contribution to knowledge and who has satisfied the following requirements:

2. A candidate for registration for the degree of Doctor of Philosophy shall:

   (1) hold an honours degree from the University of New South Wales; or

   (2) hold an honours degree of equivalent standing from another approved university; or

   (3) if he holds a degree without honours from the University of New South Wales or other approved university, have achieved by subsequent work and study a standard recognized by the appropriate Faculty or Board of Studies as equivalent to honours; or

   (4) in exceptional cases, submit such other evidence of general and professional qualifications as may be approved by the Professorial Board on the recommendation of the Faculty or Board of Studies.

3. When the Faculty or Board of Studies is not satisfied with the qualifications submitted by a candidate, the Faculty or Board of Studies may require him, before he is permitted to register, to undergo such examination or carry out such work as the Faculty or Board of Studies may prescribe.

4. A candidate for registration for a course of study leading to the degree of Doctor of Philosophy shall:

   (1) apply to the Registrar on the prescribed form at least one calendar month before the commencement of the session in which he desires to register; and

   (2) submit with his application a certificate from the head of the University school in which he proposes to study that the candidate is a fit person to undertake a course of study and research leading to the degree of Doctor of Philosophy and that the school is willing to undertake the responsibility of supervising the work of the candidate and of reporting to the Faculty or Board of Studies at the end of the course on the merits of the candidate's performance in the prescribed course.
5. Subsequent to registration the candidate shall pursue a program of advanced study and research for at least six academic sessions, save that:

(1) a candidate fully engaged in advanced study and research for his degree, who before registration was engaged upon research to the satisfaction of the Faculty or Board of Studies, may be exempted from not more than two academic sessions:

(2) in special circumstances the Faculty or Board of Studies may grant permission for the candidate to spend not more than one calendar year of his program in advanced study and research at another institution provided that his work can be supervised in a manner satisfactory to the Faculty or Board of Studies:

(3) in exceptional cases, the Professorial Board on the recommendation of the Faculty or Board of Studies may grant permission for a candidate to be exempted from not more than two academic sessions.

6. A candidate who is fully engaged in research for the degree shall present himself for examination not later than ten academic sessions from the date of his registration. A candidate not fully engaged in research shall present himself for examination not later than twelve academic sessions from the date of his registration. In special cases an extension of these times may be granted by the Faculty or Board of Studies.

7. The candidate shall be required to devote his whole time to advanced study and research, save that:

(1) the Faculty or Board of Studies may permit a candidate on application to undertake a limited amount of University teaching or outside work which in its judgement will not interfere with the continuous pursuit of the proposed course of advanced study and research;

(2) a member of the full-time staff of the University may be accepted as a part-time candidate for the degree, in which case the Faculty or Board of Studies shall prescribe a minimum period for the duration of the program.

(3) in special circumstances, the Faculty or Board of Studies may, with the concurrence of the Professorial Board, accept as a part-time candidate for the degree a person who is not a member of the full-time staff of the University and is engaged in an occupation which in its opinion, leaves the candidate substantially free to pursue his program in a school of the University. In such a case the Faculty or Board of Studies shall prescribe for the duration of his program a minimum period which, in its opinion, having regard to the proportion of his time which he is able to devote to the program in the appropriate University school is equivalent to the six sessions ordinarily required.

8. Every candidate shall pursue his program under the direction of a supervisor appointed by the Faculty or Board of Studies from the full-time members of the University staff. The work, other than field work, shall be carried out in a School of the University save that in special cases the Faculty or Board of Studies may permit candidates to conduct their work at other places where special facilities not possessed by the University may be available. Such permission will be granted only if the direction of the work remains wholly under the control of the supervisor.

9. Not later than two academic sessions after registration the candidate shall submit the topic of his research for approval by the Faculty or Board of Studies. After the topic has been approved it may not be changed except with the permission of the Faculty or Board of Studies.

10. A candidate may be required by the Faculty or Board of Studies to attend a formal course of study appropriate to his work.

11. On completing his course of study every candidate must submit a thesis which complies with the following requirements:

(1) the greater proportion of the work described must have been completed subsequent to registration for the PhD degree;

(2) it must be an original and significant contribution to the knowledge of the subject;

(3) it must be written in English except that a candidate in the Faculty of Arts may be required by the Faculty on the recommendation of the supervisor to write the thesis in an appropriate foreign language;

(4) it must reach a satisfactory standard of expression and presentation.
12. The thesis must present the candidate's own account of his research. In special cases work done jointly with other persons may be accepted, provided the Faculty or Board of Studies is satisfied on the candidate's part in the joint research.

13. Every candidate shall be required to submit with his thesis a short abstract of the thesis comprising not more than 600 words. The abstract shall indicate:
(1) the problem investigated;
(2) the procedures followed;
(3) the general results obtained;
(4) the major conclusions reached;
but shall not contain any illustrative matter, such as tables, graphs or charts.

14. A candidate may not submit as the main content of his thesis any work or material which he has previously submitted for a university degree or other similar award.

15. The candidate shall give in writing two months' notice of his intention to submit his thesis and such notice shall be accompanied by the appropriate fee.

16. Four copies of the thesis shall be submitted together with a certificate from the supervisor that the candidate has completed the course of study prescribed in his case. The 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 he has published whether or not such work is related to the thesis.

17. 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.

18. There shall normally be three examiners of the thesis, appointed by the Professorial Board on the recommendation of the Faculty or Board of Studies, at least one of whom shall be an external examiner.

19. After examining the thesis the examiners may:
(1) decide that the thesis reaches a satisfactory standard; or
(2) recommend that the candidate be required to re-submit his thesis in revised form after a further period of study and/or research; or
(3) recommend without further test that the candidate be not awarded the degree of Doctor of Philosophy.

20. If the thesis reaches the required standard, the examiners shall arrange for the candidate to be examined orally, and, at their discretion, by written papers and/or practical examinations on the subject of the thesis and/or subjects relevant thereto, save that on the recommendation of the examiners the Faculty or Board of Studies may dispense with the oral examination.

21. If the thesis is of satisfactory standard but the candidate fails to satisfy the examiners at the oral or other examinations, the examiners may recommend the University to permit the candidate to represent the same thesis and submit to a further oral, practical or written examination with in a period specified by them but not exceeding eighteen months.

22. At the conclusion of the examination, the examiners will submit to the Faculty or Board of Studies a concise report on the merits of the thesis and on the examination results, and the Faculty or Board of Studies shall recommend whether or not the candidate may be admitted to the degree.

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

*See Conditions for the Award of Degrees in the Calendar.
1. The degree of Master of Counselling (Education) Pass or Honours may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Professional Studies (hereinafter referred to as the Committee) to a candidate who has satisfactorily completed an approved program of advanced study.

The degree shall be awarded in two grades, namely the Pass Degree and the degree with Honours. There shall be two classes of Honours, namely Class I and Class II.

Qualifications

2. (1) An applicant for registration shall:

(a) hold a degree of the University of New South Wales or other approved university with a recognized major in Psychology;

(b) have been admitted to a Bachelor's Degree in an approved university with Honours in Psychology, or Honours in Education with a concomitant major in Psychology, or to a Degree of any other school or department considered appropriate by the Committee, at a standard not below Second Class Honours.

(2) Have a recognized teaching qualification and two year's experience in schools.

(3) Undertake such other tests and interviews as may be considered necessary.

(4) In special circumstances a person may be permitted to register as a candidate for the degree if he submits evidence of such academic and professional attainments as may be approved by the Committee.

(5) Notwithstanding any other provisions of the conditions for registration, the Committee may require an applicant to demonstrate his fitness for registration for the Pass degree by carrying out such work and passing such examinations as the Committee itself may determine and the Committee may, on the recommendation of the Head of School, require an applicant to demonstrate fitness for registration as a candidate for the Honours degree by carrying out such work and passing such examinations as the Committee may determine.

Registration

3. (1) An application to register as a candidate for the degree shall be made on the prescribed form, which shall be lodged with the Registrar at least two full calendar months before the first session of the year for which the candidate requires to be registered.

(2) an approved applicant shall register in one of the following categories:

(a) student in full-time attendance at the University,

(b) student in part-time attendance at the University.

(3) A student who does not satisfy the conditions for registration as provided in paragraph 2. (1) (b) above may apply for registration as an Honours candidate on completion of the first year of formal courses provided for the Pass Degree of Master of Counselling (Education) at a standard approved by the Committee.

Pass Degree

3.1 (1) A candidate for the Pass degree shall be required to undertake the appropriate course of study and pass the prescribed examinations. Where specified a candidate shall submit a report on a project approved by the Committee the Satisfactory completion of which shall be regarded as part of the assessment for the degree.

(2) No student shall be considered for the award of the Degree until the lapse of four sessions for a full-time student or six sessions for a part-time student from the date on which registration becomes effective. Extensions beyond these periods for the completion of the Degree shall be granted only with the approval of the Committee.

Honours Degree

3.2 (1) A candidate for the Honours Degree will be expected to complete all appropriate subjects at a standard approved by the Committee.

(2) Every candidate for the Honours Degree shall submit a thesis embodying the results of an extended research or investigation. He shall not submit as the main content of his thesis any work or material which he has previously submitted for a university degree or other similar award.

(3) No student shall be considered for the award of the Degree until the lapse of four sessions for a full-time student or eight sessions for part-time student from the date on which registration
becomes effective. A student taking the Honours Course full-time will be required to complete within six sessions, and one taking it part-time within eight sessions. Extensions beyond these periods shall be granted only with the approval of the Committee.

4. (1) A candidate for an Honours degree shall be required to submit three copies of the thesis referred to in paragraph 3.2 (2) in a form which complies with the requirements of the University for the preparation and submission of Higher Degree theses.

(2) For each candidate submitting a thesis there shall be at least two examiners appointed of the Professorial Board on the recommendation of the Committee, one of whom shall, if possible, be an external examiner.

(3) 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 any other copying medium.

(4) Every candidate who submits a project for a pass degree shall prepare and bind two copies of the project report in accordance with the specifications currently approved by the University for higher degree Project reports.

5. Having considered the examiner’s reports where appropriate and the candidates other work in the prescribed course of study the Committee will recommend whether or not the candidate should be admitted to the degree.

6. An approved candidate shall pay such fees as may be determined from time to time by the Council.

1. The degree of Master of Education Pass or Honours may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Professional Studies (hereinafter referred to as the Committee) to a candidate who has satisfactorily completed an approved program of advanced study.

The degree shall be awarded in two grades, namely the Pass degree and the degree with Honours. There shall be two classes of Honours, namely Class I and Class II.

2. (1) An applicant for registration shall

for the Pass degree

(a) hold a degree of the University of New South Wales or other approved university;

for the Honours degree

(b) have been admitted to a Bachelor’s degree in an approved university by a School or Department of Education, or to a degree of any other School or Department considered appropriate by the Committee, at a standard not below second class Honours.

(2) Hold the Diploma in Education of the University of New South Wales or other approved university or possess qualifications accepted by the Committee as equivalent.

(3) Have had at least one year’s practical experience in some branch of education acceptable to the Committee.

(4) In special circumstances a person may be permitted to register as a candidate for the degree if he submits evidence of such academic and professional attainments as may be approved by the Committee.

(5) Notwithstanding any other provisions of the conditions for registration, the Committee may require an applicant to demonstrate his fitness for registration for the pass degree by carrying out such work and passing such examinations as the Committee itself may determine and the Committee may, on the recommendation of the Head of School, require an applicant to demonstrate fitness for registration as a candidate for the Honours degree by carrying out such work and passing such examinations as the Committee may determine.

3. (1) An application to register as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least two full calendar months before the commencement of the session in which registration is required.
(2) An approved applicant shall register in one of the following categories:
(a) student in full-time attendance at the University;
(b) student in part-time attendance at the University;
(c) student working externally* to the University;

(3) A student who does not satisfy the conditions for registration as provided in paragraph 2.1(b) may apply for registration as an Honours candidate on completion of subjects to the value of eight units provided for the pass degree of Master of Education, at a standard approved by the Committee. This condition may be varied in exceptional cases at the discretion of the Committee.

3.1 (1) The program for the pass degree shall include subjects+ in Education to the value of ten units, but in exceptional cases, and at the discretion of the Committee, the number of units required may be reduced by up to four.
(2) Two of the required ten units may be taken by means of a project report.
(3) A student who does not satisfy the conditions for registration as provided in paragraph 2.1(b) may apply for registration as an Honours candidate on completion of subjects to the value of eight units provided for the pass degree of Master of Education, at a standard approved by the Committee. This condition may be varied in exceptional cases at the discretion of the Committee.

3.2 (1) A student satisfying conditions for registration provided in paragraph 2.1(b) shall be required to pass, at a standard approved by the Committee, subjects to the value of four units provided for the pass degree of Master of Education except that in special circumstances he may be granted exemption from this requirement.
(2) Every candidate for the Honours degree shall submit a thesis embodying the results of an original investigation. He shall not submit as the main content of his thesis any work or material which he has previously submitted for a university degree or other similar award.
(3) No student shall be considered for the award of the degree until the lapse of four sessions for a full-time student, or six sessions for a part-time or external student, from the date on which registration becomes effective. A student taking the honours degree course on a full-time basis shall be required to complete it within four sessions, and one taking it part-time or working externally within eight sessions. Extension beyond these periods shall be granted only with the approval of the Committee.

4. (1) A candidate for an Honours degree shall be required to submit three copies of the thesis referred to in paragraph 3.2 (2) in a form which complies with the requirements of the University for the preparation and submission of higher degree theses.
(2) For each candidate submitting a thesis there shall be at least two examiners appointed by the Professorial Board on the recommendation of the Committee, one of whom shall, if possible, be an external examiner.
(3) It shall be understood that the University retains three copies of the thesis submitted for examination and is free to allow the thesis or report 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. Having considered the examiners' reports where appropriate and the candidate's other work in the prescribed course of study, the Committee will recommend whether or not the candidate should be admitted to the degree.

6. An approved candidate shall pay such fees as may be determined from time to time by the Council.

* External registration is possible only after completion of course work requirements and subject to provision of suitable supervision arrangements.
+ Subjects offered for the degree of MEd shall be allotted one or two units, one unit for a subject of two hours per week for one session, and two units for a subject of two hours per week for two sessions.
1. The degree of Master of Educational Administration Pass or Honours may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Professional Studies (hereinafter referred to as the Committee) to a candidate who has satisfactorily completed an approved program of advanced study.

The degree shall be awarded in two grades namely the Pass degree and the degree with Honours.

2. (1) An applicant for registration shall:

for the Pass degree
(a) hold a degree of the University of New South Wales or other approved university;

for the Honours degree
(b) have been admitted to a Bachelor's degree in an approved university by a School or Department considered appropriate by the Committee, at a standard not below second class Honours.

(2) Hold the Diploma in Education of the University of New South Wales or other approved university or possess qualifications accepted by the Committee as equivalent.

(3) Have had at least three years' practical experience in some branch of education acceptable to the Committee.

(4) In special circumstances a person may be permitted to register as a candidate for the degree if he submits evidence of such academic and professional attainments as may be approved by the Committee.

(5) Notwithstanding any other provisions of the conditions for registration, the Committee may require an applicant to demonstrate his fitness for registration for the Pass degree by carrying out such work and passing such examinations as the Committee itself may determine and the Committee may, on the recommendation of the Head of the School, require an applicant to demonstrate fitness for registration as a candidate for the Honours degree by carrying out such work and passing such examinations as the Committee may determine.

3. (1) An application to register as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least two full calendar months before the first session of the year for which the candidate requires to be registered.

(2) An approved applicant shall register in one of the following categories:

(a) student in full-time attendance at the University;

(b) student in part-time attendance at the University;

(3) A student who does not satisfy the conditions for registration as provided in paragraph 2. (1) (b) may apply for registration as an honours candidate on completion of subjects to the value of eight units provided for the pass degree of Master of Educational Administration, at a standard approved by the Committee. This condition may be varied in exceptional cases at the discretion of the Committee.

3.1 (1) The program for the pass degree shall include subjects in education to the value of fourteen units, but in exceptional cases, and at the discretion of the Committee, the number of units required may be reduced by up to four.

(2) No student shall be considered for the award of the degree until the lapse of two sessions for a full-time student, or four sessions for a part-time student, from the date on which registration becomes effective. A student taking the pass course on a full-time basis shall be required to complete it within four sessions and one taking it part-time within eight sessions. Extension beyond these periods shall be granted only with the approval of the Committee.

3.2 (1) Every candidate for the Honours Degree shall be required to pass, at a standard approved by the Committee, subjects to the value of fourteen units provided for the pass degree of Master of Educational Administration except in special circumstances, and at the discretion of the Committee, the number of units required may be reduced by up to four.

(2) Every candidate for the Honours degree shall submit a thesis embodying the results of an original investigation. He shall not submit as the main content of his thesis any work or material which he has previously submitted for a university degree or other similar award.

*Subjects offered for the degree of Master of Educational Administration shall be allotted one or two units, one unit for a subject of two hours per week for one session, and two units for a subject of two hours per week for two sessions.*
Professional Studies

(3) No student shall be considered for the award of the degree until the lapse of four sessions for a full-time student, or six sessions for a part-time student, from the date on which registration becomes effective. A student taking the Honours degree course on a full-time basis shall be required to complete it within six sessions, and one taking it part-time within eight sessions from the date on which registration becomes effective. A student transferring to Honours registration by satisfying conditions in paragraph 3. (3) shall be required to complete within eight sessions from the date of original registration. Extension beyond these periods shall be granted only with the approval of the Committee.

Thesis

4. (1) Every candidate shall provide three copies of any thesis or report submitted in a form which complies with the requirements of the University for the preparation and submission of higher degree theses and project reports.

(2) For each candidate submitting a thesis for the Honours degree there shall be at least two examiners appointed by the Professorial Board on the recommendation of the Committee, at least one of whom shall, if possible, be an external examiner.

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

Recommendation for Admission to Degree

5. Having considered the examiners’ reports where appropriate and the candidate’s other work in the prescribed course of study the Committee will recommend whether or not the candidate should be admitted to the degree.

Fees

6. An approved candidate shall pay such fees as may be determined from time to time by the Council.

Master of Health Administration by Formal Course work (MHA)

1. The degree of Master of Health Administration (by formal course work) may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Professional Studies (hereinafter referred to as the Committee) to a candidate who has satisfactorily completed an approved program of advanced study.

Qualifications

2. (1) An applicant for registration for the degree shall normally have been admitted to an appropriate degree in the University of New South Wales or other approved university or tertiary institution at a level acceptable to the Committee.

(2) In exceptional cases an applicant may be registered as a candidate for the degree if he submits evidence of such academic and professional attainments as may be approved by the Committee.

(3) Notwithstanding any other provisions of these conditions the Committee may require an applicant to demonstrate fitness for registration by completing a qualifying program or such other tests as determined by the Committee.

Registration

3. (1) An application to register as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar two months before commencement of the course. The Committee shall determine the date of registration.

(2) A candidate for the degree shall be required to undertake such formal courses of study and pass such examinations as may be prescribed by the Committee.

(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 terminate candidature or take such other action as it considers appropriate.

(4) Normally a candidate shall not be considered for the award of the degree until the lapse of four sessions in the case of a full-time candidate or eight sessions in the case of a part-time candidate from the date of registration. The maximum period of candidature shall be six academic sessions from the date of registration for a full-time student and ten academic sessions for a part-time student. In special cases an extension of time may be granted by the Committee.
4. After considering the examiners' reports where appropriate and the candidate's other work in the prescribed course of study the Committee shall recommend whether or not the candidate should be admitted to the degree.

5. An approved candidate shall pay such fees as may be determined from time to time by the Council.

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

2. (1) An applicant for registration for the degree shall hold a degree, normally of four years' full-time duration, from the University of New South Wales or other approved university or tertiary institution at a level acceptable to the Committee.

   (2) The Committee may consider applications from graduates of three-year full-time courses in the University of New South Wales or other approved university or tertiary institution, at a standard acceptable to the Committee, who have had at least three years' experience in the health services of a kind which is acceptable to the Committee.

   (3) In exceptional cases an applicant may be permitted to register as a candidate for the degree if he submits evidence of such academic and professional attainments as may be approved by the Committee.

   (4) Notwithstanding any other provisions of these conditions the Committee may require an applicant to demonstrate fitness for registration by completing a qualifying program as determined by the Committee.

3. (1) An application to register as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar one month before the commencement of the session in which the candidate desires to commence registration. Where possible the applicant before submitting his application should obtain the approval of the Head of the School of Health Administration for his proposed program of study.

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

   (3) The Committee shall determine the date of registration and shall admit an approved applicant to one of the following categories of registration:

   (a) a student in full-time attendance at the University;

   (b) a student in part-time attendance at the University;

   (c) a student working externally to the University.

   (4) A candidate shall be required to undertake an original investigation or design under the direction of a supervisor appointed by the Committee. A candidate may also be required to perform other work as may be prescribed by the Committee.

   (5) At least once a year, and at any other time that the Committee sees fit, the candidate's supervisor shall present to the Head of School in which the candidate is registered a report on the progress of the candidate. The Committee shall review the report and as a result of its review may cancel registration or take such other action as it considers appropriate.

   (6) Unless otherwise recommended by the Committee, no candidate shall be awarded the degree until the lapse of four complete sessions from the date of registration, save that in the case of a candidate who obtained the degree of Bachelor with Honours or who has had previous research experience, this period may be reduced by up to two sessions with the approval of the Committee. A candidate who is fully engaged in research for the degree shall present himself for examination not later than four academic sessions from the date of registration. A candidate not fully engaged in research shall present himself for examination not later than eight academic sessions from the date of his registration. In special cases an extension of these times may be granted by the Committee.
| Thesis 4. (1) | A candidate shall give in writing to the Registrar two months' notice of his intention to submit his thesis.  
(2) A candidate for the degree shall be required to submit three copies of the thesis embodying the results of the original investigation or design referred to in 3. (4) above. The candidate may also submit with the thesis any work he has published. 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.  
(3) The thesis must present 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 on the candidate's part in the joint research.  
(4) for each candidate there shall be at least two examiners appointed by the Committee one of whom, if possible, shall be external to the University.  
(5) 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, microfilm or other copying medium. |
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**Master of Health Planning by Formal Course work (MHP)**

1. The degree of Master of Health Planning may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Professional Studies (hereinafter referred to as the Committee) to a candidate who has satisfactorily completed an approved program of advanced study.

**Qualifications**

2. An applicant for registration for the degree shall:

   (1) (a) normally be a graduate from an appropriate four-year, full-time undergraduate course in the University of New South Wales or other university or tertiary institution, at a standard acceptable to the Committee.  
   (b) have had at least three years' experience in the health services of a kind which is acceptable to the Committee.  

   (2) The Committee may consider applications from graduates of three-year, full-time courses in the University of New South Wales or other university or tertiary institution, at a standard acceptable to the Committee, who have satisfactorily completed appropriate graduate or professional studies and have had at least three years' experience in the health services of a kind which is acceptable to the Committee.  

   (3) In exceptional cases an applicant may be registered as a candidate for the degree if he submits evidence of such academic and professional attainments as may be approved by the Committee.  

   (4) Notwithstanding any other provisions of these conditions the Committee may require an applicant to demonstrate fitness for registration by completing a qualifying program as determined by the Committee.  

**Registration**

3. (1) An application to register as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar two months before commencement of the session in which the candidate desires to commence.  

   (2) A candidate for the degree shall be required to undertake such formal courses of study and pass such examinations as may be prescribed by the Committee and, where specified, submit a report on such a project or projects as may be required.
(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 terminate candidature or take such other action as it considers appropriate.

(4) Normally a candidate shall not be considered for the award of the degree until the lapse of two sessions in the case of a full-time candidate or four sessions in the case of a part-time candidate from the date of registration. The maximum period of candidature shall be four academic sessions from the date of registration for a full-time student and eight academic sessions for a part-time student. In special cases an extension of time may be granted by the Committee.

4. After considering the examiners' reports, where appropriate and the candidate's other work in the prescribed area of study, the Committee shall recommend whether or not the candidate should be admitted to the degree.

5. An approved candidate shall pay such fees as may be determined from time to time by the Council.

1. The degree of Master of Librarianship (by research) may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Professional Studies (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) An applicant for registration for the degree shall:
   (a) have been admitted to an appropriate degree in the University of New South Wales or other approved university at a level approved by the Committee;
   (b) hold the Diploma in Librarianship of the University of New South Wales or possess a qualification accepted by the Committee as equivalent.
   (2) In exceptional cases an applicant may be permitted to register as a candidate for the degree if he submits evidence of such academic and professional attainments as may be approved by the Committee.
   (3) Notwithstanding any other provisions of these conditions the Committee may require an applicant to demonstrate fitness for registration by carrying out such work and sitting for such examinations as the Committee may determine.
   (4) In every case before permitting an applicant to register as a candidate the Committee shall be satisfied that adequate supervision and facilities are available.

3. (1) An application to register as a candidate shall be made on the prescribed form which shall be lodged with the Register at least one month before the commencement of the session in which the candidate desires to commence registration.
   (2) An applicant shall enrol in one of the following categories:
   (a) student in full-time attendance at the University,
   (b) student in part-time attendance at the University,
   (c) student working externally to the University.
   In all cases the proposed course of study shall be submitted to the Head of the School of Librarianship for approval.
   (3) A candidate shall be required to undertake an original investigation on a topic approved by the Committee. A candidate may also be required to perform other work as may be prescribed by the Committee. The Committee shall determine the maximum period of registration.
   (4) The progress of a candidate shall be reviewed annually by the Committee on the recommendation of the Head of the School of Librarianship and as a result of such review the Committee may terminate the candidature.
Professional Studies

Thesis

4. A candidate shall give in writing two month's notice of his intention to submit his thesis and such notice shall be accompanied by the appropriate fee.

(2) A candidate for the degree shall be required to submit three copies of a thesis embodying the results of the original investigation referred to in 3. (3) above. 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.

(3) 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.

(4) For each candidate there shall be at least two examiners appointed by the Committee, one of whom shall be an external examiner.

(5) A candidate may be required to attend for an oral or written examination.

Recommendation for Admission to Degree

5. Having considered the examiners' reports the Committee shall recommend whether the candidate may be admitted to the degree.

6. An approved candidate shall pay such fees as may be determined from time to time by the Council.

Fees

(5) No candidate shall be considered for the award of the degree until the lapse of three complete sessions in the case of a full-time candidate or four complete sessions in the case of a part-time or external candidate from the date from which registration becomes effective.

(6) Notwithstanding clause 3. (5) above, the Committee may approve remission of up to one session for a full-time candidate or two sessions for a part-time or external candidate.

Master of Librarlanship by Formal Course work (MLib)

1. The degree of Master of librarianship (by formal course work) may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Professional Studies (hereinafter referred to as the Committee) to a candidate who has satisfactorily completed an approved program of advanced study.

Qualifications

2. (1) An applicant for registration for the degree shall:

(a) have been admitted to an appropriate degree in the University of New South Wales or other approved university at a level approved by the Committee;

(b) if intending to specialize in Library Management hold the Diploma in Librarlanship of the University of New South Wales or possess a qualification accepted by the Committee as equivalent, and

(c) if intending to specialize in Information Science, either hold the Diploma in Librarlanship of the University of New South Wales or possess a qualification accepted by the Committee as equivalent or have been admitted to a degree with a major in Computer Science in the University of New South Wales or other approved university at a level approved by the Committee.

(2) In exceptional cases an applicant may be permitted to register as a candidate for the degree if he submits evidence of such academic and professional attainments as may be approved by the Committee.

(3) Notwithstanding any other provisions of these conditions the Committee may require an applicant to demonstrate fitness for registration by carrying out such work and sitting for such examinations as the Committee may determine.

Registration

3. (1) An application to register as a candidate shall be made on the prescribed form which shall be lodged with the Registrar at least two months before the commencement of the session in which the candidate desires to commence registration.

(2) A candidate for the degree shall be required to undertake such course of formal study, pass such examinations and submit a report on a project, as prescribed by the Committee.
(3) No candidate shall be considered for the award of the degree until the lapse of two sessions in the case of a full-time candidate or four sessions in the case of a part-time candidate from the date from which registration becomes effective.

(4) The progress of a candidate shall be reviewed annually by the Committee on the recommendation of the Head of the School of Librarianship and as a result of such review the Committee may terminate the candidature.

4. (1) A report on a project approved by the Committee may be submitted at the completion of the formal section of the course, but in any case shall be submitted not later than one year after the completion of such course.

(2) The format of the report shall accord with the instructions of the Head of School and shall comply with the requirements of the Committee for the submission of project reports.

(3) The report shall be examined by two examiners appointed by the Committee.

(4) A candidate may be required to attend for an oral or written examination.

5. Having considered the examiners’ reports and the candidate’s other work in the prescribed course of study, the Committee shall recommend whether the candidate may be admitted to the degree.

6. An approved candidate shall pay such fees as may be determined from time to time by the Council.

1. The degree of Master of Social Work (by research) may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Professional Studies (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, and who has completed a prescribed program of advanced study extending over one academic year.

2. (1) An applicant for registration for the degree shall:

(a) have been admitted to the degree of Bachelor of Social Work at honours standard in the University of New South Wales, or hold equivalent qualifications, or

(b) have been admitted to the degree of bachelor of Social Work in the University of New South Wales or hold equivalent qualifications accepted by the Committee at a level approved by the Committee; and have had at least one year’s professional experience acceptable to the Committee.

(2) In exceptional cases an applicant may be permitted to register as a candidate for the degree if he submits evidence of such academic and professional attainments as may be approved by the Committee.

(3) Notwithstanding any other provisions of these conditions the Committee may require an applicant to demonstrate fitness for registration by carrying out such work and sitting for such examinations as the Committee may determine.

3. (1) An application to register as a candidate shall be made on the prescribed form which shall be lodged with the Registrar at least one month before the commencement of the session in which the candidate desires to commence registration.

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

(3) An applicant shall enrol in one of the following categories.

(a) student in full-time attendance at the University;

(b) student in part-time attendance at the University;

(c) student working externally to the University.
In all cases the proposed course of study shall be submitted to the Head of the School of Social Work for approval.

(4) Every candidate for the degree shall be required:

(a) to prepare and submit a thesis on a topic approved by the Committee, embodying the results of an original investigation; and

(b) to carry out a prescribed program of advanced study extending over one year, as approved by the Committee.

(5) The progress of a candidate shall be reviewed annually by the Committee on the recommendation of the Head of the School of Social Work and as a result of such review the Committee may terminate the candidature.

(6) Unless permission to the contrary has been granted, a full-time candidate shall be required to submit his thesis not earlier than three sessions, and not later than four sessions, from the date of registration; a part-time candidate, not earlier than four sessions, and not later than six sessions, from the date of registration.

Thesis

4. (1) A candidate shall give in writing two months’ notice of his intention to submit his thesis and such notice shall be accompanied by the appropriate fee.

(2) A candidate for the degree shall be required to submit three copies of a thesis embodying the results of the original investigation referred to in 3. (4) above. 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.

(3) For each candidate there shall be at least two examiners appointed by the Committee, one of whom shall be an external examiner.

(4) A candidate may be required to attend for an oral or written examination.

(5) 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.

Recommendation for Admission to Degree

5. Having considered the examiners’ reports the Committee shall recommend whether the candidate may be admitted to the degree.

Fees

6. An approved candidate shall pay such fees as may be determined from time to time by the Council.

Master of Social Work by Formal Course work (MSW)

1. The degree of Master of Social Work (by formal course) may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Professional Studies (hereinafter referred to as the Committee) to a candidate who has satisfactorily completed an approved program of advanced study.

2. An applicant for registration for the degree shall:

(a) have been admitted to the degree of Bachelor of Social Work in the University of New South Wales at a level approved by the Committee or hold equivalent qualifications accepted by the Committee.

(b) have had at least one year’s professional experience acceptable to the Committee.

(2) In exceptional cases an applicant may be permitted to register as a candidate for the degree if he submits evidence of such academic and professional attainments as may be approved by the Committee.

(3) Notwithstanding any other provisions of these conditions the Committee may require an applicant to demonstrate fitness for registration by carrying out such work and sitting for such examinations as the Committee may determine.
3. (1) An application to register as a candidate shall be made on the prescribed form which shall be lodged with the Registrar at least two months before the commencement of the session in which the candidate desires to commence.

(2) A candidate for the degree shall be required to undertake such course of formal study and pass such examinations as prescribed by the Committee.

(3) The progress of a candidate shall be reviewed annually by the Committee on the recommendation of the Head of the School of Social Work as a result of such review the Committee may terminate the candidature.

4. Having considered the candidate's results in the prescribed course of study, the Committee shall recommend whether the candidate may be admitted to the degree.

5. An approved candidate shall pay such fees as may be determined from time to time by Council.

1. The degree of Master of Health Personnel Education may be awarded by the Council on the recommendation of the Professorial Board Committee on Health Personnel Education (hereinafter referred to as the Committee) to a candidate who has satisfactorily completed a program of advanced study.

2. An applicant for registration for the degree shall:

   (1) (a) have graduated from an appropriate four-year full time undergraduate course in the University of New South Wales or other approved university or tertiary institution at a level of performance acceptable to the Committee; and

   (b) have had teaching and/or administrative experience of not less than two full-time years or its equivalent at a level acceptable to the Committee.

   (2) In special circumstances a person may be permitted to register as a candidate for the degree if that person submits evidence of such academic, teaching and professional experience as may be approved by the Committee.

   (3) Notwithstanding any other provisions of these conditions the Committee may require an applicant to demonstrate fitness for registration by carrying out such work and sitting for such examinations as the Committee may determine.

3. (1) An application to register as a candidate shall be made on the prescribed form which shall be lodged with the Registrar at least two months before the commencement of the session in which the candidate desires to commence registration.

(2) A candidate for the degree shall be required to undertake such course of formal study and pass such examinations as prescribed by the Committee and to submit a satisfactory report on an approved subject.

(3) Except with the approval of the Committee, no candidate shall be considered for the award of the degree until the lapse of three sessions in the case of a full-time candidate or five sessions in the case of a part-time candidate from the date from which registration becomes effective. The Committee may, in exceptional circumstances, approve remission of up to one session in the case of a full-time candidate and up to two sessions in the case of a part-time candidate.

(4) The progress of a candidate shall be reviewed annually by the Committee and as a result of such review the Committee may terminate the candidature.

4. (1) A project report shall normally be submitted within one year of the completion of the formal section of the course. In special circumstances extensions of time may be granted by the Committee.

(2) The work involved in the project may, with the approval of the Committee, be carried out externally by the Committee.

(3) (a) The report shall be examined by two examiners appointed by the Professorial Board on the recommendation of the Committee.

   (b) A candidate may be required to undertake an oral or written examination as arranged by the Committee.
**Recommendation for Admission to Degree**

5. Consequent upon consideration of the examiners’ reports and the candidate’s other results in the prescribed course of study the Committee shall recommend to the Professorial Board whether the candidate may be admitted to the degree.

**Fees**

6. An approved candidate shall pay such fees as may be determined from time to time by the Council.

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**Graduate Diplomas in the Faculty of Professional Studies**

1. An application for admission to a graduate diploma course in the Faculty of Professional Studies shall be made on the prescribed form which should be lodged with the Registrar at least two full calendar months before the commencement of the course.

2. An applicant for admission to a graduate diploma shall be:
   
   (1) a graduate of the University of New South Wales or other approved university,
   
   (2) a person with other qualifications as may be approved by the Higher Degree Committee of the Faculty of Professional Studies (hereinafter referred to as ‘the Committee’).

3. Notwithstanding clause 2. above, the Committee may require an applicant to take such other prerequisite or concurrent studies and/or examinations as it may prescribe.

4. Every candidate for a graduate diploma shall be required to undertake the appropriate course of study, to pass any prescribed examinations, and if so laid down in the course, to complete a project or assignment specified by the Head of the School. The format of the report on such project or assignment shall accord with the instructions laid down by the Head of the School.

5. To qualify for the award of the graduate diploma a candidate shall:
   
   (1) complete a one-year full-time course within four consecutive sessions, or
   
   (2) complete a two-year part-time course within six consecutive sessions.

6. In exceptional cases the appropriate Higher Degree Committee may extend the period in which a candidate must complete his graduate diploma course.

7. An approved applicant shall be required to pay the fee for the course in which he desires to register. Fees shall be paid in advance.
Subject Descriptions

Identification of Subjects by Numbers

Each of the subjects taught in the University is identifiable both by number and by name. This is a fail-safe measure at the points of enrolment and examination against a student nominating a subject other than the one intended. Subject numbers are allocated by the Assistant Registrar, Examinations and Student Records, and the system of allocation is:

1. The School offering a subject is indicated by the number before the decimal point;
2. If a subject is offered by a Department within a School, the first number after the decimal point identifies that Department;
3. The position of a subject in a sequence is indicated by the third number after the decimal point. For example, 2 would indicate that the subject is the second in a sequence of subjects;
4. Graduate subjects are indicated by the suffix G.

As indicated above, a subject number is required to identify each subject in which a student is to be enrolled and for which a result is to be returned. Where students may take electives within a subject, they should desirably be enrolled initially in the particular elective, and the subject numbers allotted should clearly indicate the elective. Where it is not possible for a student to decide on an elective when enrolling or re-enrolling, and separate examinations are to be held in the electives, Schools should provide to the Examinations and Student Record Section in April (Session 1) and August (Session 2) the names of students taking each elective. Details of the actual dates in April and August are set out in the Calendar of Dates earlier in this volume.

Those subjects taught in each Faculty are listed in full in the handbook of that Faculty, in the section entitled Subject Descriptions.

Servicing Subjects are those taught by a School or Department outside of its own Faculty, and are listed at the end of Undergraduate Study or Graduate Study of the relevant subject. Their subject descriptions are published in the handbook of the Faculty in which the subject is taught.

The identifying numbers for each School are set out on the following page.

For General Studies subjects see the Board of Studies in General Education Handbook, which is available free of charge.

Information Key

The following is the key to the informationsupplied about each subject listed below:
S1 (Session 1); S2 (Session 2); F (Sessions 1 plus Session 2, i.e. full year);
S1 or S2 (Session 1 or Session 2, i.e. choice of either session); SS (Single Session, i.e. which session taught not known at time of publication); L (Lecture, followed by hours per week); T (Laboratory/Tutorials, followed by hours per week).

HSC Exam Prequisites

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

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.
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*Subjects also offered for courses in this Handbook.

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School of Accountancy

Undergraduate Study

14.013 Accounting for Health Administration I (Full-time course)
and
14.014 Accounting for Health Administration I (External course)

14.023 Accounting for Health Administration II (Full-time course)
and
14.024 Accounting for Health Administration II (External course)
Introduction to the fund theory of accounting. The recording of hospital transactions in the various funds and the preparation, analysis and interpretation of historical accounting reports. Internal control, budget and cost analysis in the hospital context.

14.501 Accounting and Financial Management IA S1 or S2 LT4½
Prerequisite: Nil.
The basic concepts of financial model building and information systems, including the double-entry recording system, the accounting cycle, income measurement and financial reporting, and an introduction to basic elements of taxation and auditing.

14.511 Accounting and Financial Management IB S1 or S2 LT4½
Prerequisite: 14.501
Development of basic concepts introduced in 14.501 Accounting and Financial Management IA, including management accounting and operations research, corporate reporting, business finance, system design, elementary computer programming and applications.

14.542 Accounting and Financial Management IIIB S1 or S2 LT4½
Prerequisite: 14.511 plus 2 unit Mathematics or 3 unit Mathematics or 4 unit Mathematics
Pre-1978 HSC Exam Grade Required 1, 2 or 3
A critical examination of concept and problems in income measurement, asset valuation and financial reporting for various forms of business undertaking with particular reference to corporate organizations, including associated aspects of auditing and taxation and methods of accounting for changing prices.

14.602 Information Systems IIIA S1 or S2 L2T1
Pre-requisite: Nil
Introduction of information systems in business and commerce, systems design concepts, the theory of modelling, feasibility studies, internal control and auditing. An introduction to programming.

14.603 Information Systems IIIB S2 L2T1
Prerequisite: 14.602
A design of information systems at an advanced level, broad introduction to operations research in business, additional experience with higher level program languages and data manipulation.

14.613 Business Finance II S1 or S2 L2T1
Prerequisite: Nil.
The essential aspects of financial decision-making in business including: factors influencing capital expenditure decisions; alternative approaches to valuation; factors affecting the formulation of the capital structure; influence of the capital market environment.

Graduate Study

14.940G Accounting and Financial Management A S1 L2T1
Prerequisite: Nil
An integrated introduction to management information systems and essentials of accounting. Concepts of information, measurement and communication; the accounting process as an information system; accounting systems and records; financial reporting and interpretation.
14.940G Management and Financial Systems Management B  S2 L2T4
Prerequisite: 14.940G
Management information systems including internal reporting and control, concepts and decision analysis, budgetary control, and profit planning, standard costs, responsibility accounting and performance measurement. Accounting and operations research including budget simulation and decision models, integrated information systems, financial reporting and forms of business organization, and financial management.

14.957G Operations Research for Management I  S1 L3
The application of mathematical and statistical techniques to the solving of management problems. The structuring of the decision problem, mathematical model construction, mathematical programming, probability and statistical decision theory, inventory and queuing theory,Simulation models and applications with particular reference to models of business organizations.

School of Anatomy

Undergraduate Study

70.011A Histology I  S1 L2T4
Prerequisite: 17.021

70.012A Musculoskeletal Anatomy  S1 L2T4
Prerequisites: 70.011A, 70.011C.
The topographical anatomy of the limbs and the musculoskeletal framework of the trunk. Distribution of nerves and vessels. Living and radiological anatomy.

70.012B Visceral Anatomy  S2 L2T4
Prerequisites: 70.011A, 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  S1 L2T4
Prerequisites: 70.012A, 70.012C.

70.011B Mammalian Embryology  S2 L2T4
Prerequisite: 70.011A.

70.011C Introductory Anatomy  S1 L2T4
Prerequisite: 17.021.
Introduction to gross anatomy, based on a study of specimens. Musculoskeletal, cardiovascular, respiratory, gastrointestinal, genitourinary and nervous systems. General topographical and surface anatomy. Normal variations including those related to sex and age (childhood, adolescence, maturity, senescence).

70.012B Visceral Anatomy  S2 L2T4
Prerequisites: 70.011A, 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  S1 L2T4
Prerequisites: 70.012A, 70.012C.

70.012C Visceral Anatomy  S2 L2T4
Prerequisites: 70.012A, 70.012C.
The topographical anatomy of the great visceral systems (gastrointestinal, respiratory, cardiovascular and genitourinary) and of the head and neck. Living and radiological anatomy.

School of Applied Geology

Undergraduate Study

25.011 Geology I  L3T3
relationships of igneous, sedimentary and metamorphic rocks. Introduction to coal, oil and ore deposits.  **Geology IIA**

*Geology IIA*  
**Subject Descriptions**  
Introduction to coal, oil and ore deposits. *Stratigraphy and Palaeontology* Basic principles of stratigraphy. Introductory palaeontology. The geological time scale. The geological history of the Australian continent and more specifically that of New South Wales in introductory outline.  
**Practical:** Preparation and interpretation of geological maps and sections. Map reading and use of simple geological instruments. Study of simple crystal forms and symmetry. Applied stereoscopic projection. Identification and description of common minerals and rocks in hand specimen. Recognition and description of examples of important fossil groups. Supplemented by three field tutorials, attendance at which is compulsory.

25.022  **Geology IIB**  
**L1T2**  
**Stratigraphy:** Flow regime and bedding forms including flume experiments, sedimentary structures. Modern and ancient environments of deposition: fluvial, deltaic, coastal, shelf and deep sea environments. The facies concept. Stratigraphic principles. Fold Belts, geosynclines and their interpretation by plate tectonics models. Stratigraphic and structural development of a fold belt (Lachlan Fold Belt) and an intracratonic basin (Sydney Basin).  
**Palaeontology:** Introduction to Palaeobotany. Practical examination of representative fossils from each phyla.  
**Geochemistry:** Relationships of igneous, sedimentary and metamorphic rocks. Calculation of the detrital sedimentary rocks including limestones. The classification of the detrital sedimentary rocks. The chemically formed sedimentary rocks including the phosphates, zoolites, evaporites, ferruginous and siliceous deposits. Introduction to coals petrology.

25.023  **Geology IIIB**  
**L3T3**  
**Geophysics**  
_Geophysics:_ The physics, shape, structure and constitution of the earth; seismology, gravity, geology, geomorphology, geoelectricity and geochronology. Geotectonics and geodynamics: geophysical expression and relation to geology and geochemistry. *Exploration Geophysics* Introductory course in exploration geophysics covering the following methods: seismic, electrical, electro-magnetic, gravity, magnetic and radioactive with applications, mining, petroloum, engineering, hydrology and well logging.

**Stratigraphy & Palaeontology**  

**Field Mapping**  
Geological mapping in a complicated geological terrain with emphasis on stratigraphical and structural interpretation. Geological report writing and cartography.

25.033  **Geology IIIC**  
**L6T8**  
**Mathematical Geology and Geological Surveying**

*Mathematical Geology:* An introduction to the mathematical techniques and concepts which may be applied to the analysis of geological data. Measurement scale, probability axioms, frequency analysis and basic geostatistics, sampling theory and techniques. FORTRAN computer programming forms a substantial part of the course with programming exercises in the analysis of map information and other geological data. Quantitative map interpretation with emphasis on trend surface analysis and automatic contouring techniques. *Geological Surveying:* Levels, tacheometers and theodolites. Field techniques. Precision of angular measurements. Stadia surveying. Levelling. Field computations. Topographic maps.  
**Geochemistry and Petrology**  

**Advanced Structural Geology**

Analysis of structural elements at the microscopic, macroscopic and macrosopic scales. Modern methods of analysis, especially petrographic analysis and AVA. Detailed studies of the analysis of metamorphic terrains, eg Otago Schists, Cooma Complex.
Sedimentary Basin Analysis and Geology of Hydrocarbons
Basis evolution. Analysis of sedimentary and palaeoecological systems
in fluvial deltacal, nearshore and deepwater environments. Structural
systems formed by tectonic, compressional and strike-slip tectonics.
Geochemistry of hydrocarbons and formation fluids. Factors critical to
occurrence of oil, gas and coal. Typical Australian and overseas
occurrence. Techniques of exploration, assessment and development of
reserves.

Field Mapping and Remote Sensing
Field Mapping: Field mapping in a complex geological terrain, with
concentration on the structural geology of deformed and metamor-
phosed sequences. Writing geological reports, and drafting geological
maps. Remote Sensing: Exercises in the combined usage of air photos
and ERTS imagery for the interpretation of regional structural geology.

In addition, one of the following topics is to be selected
after consultation with the Head of School:

1. Economic Geology B. Mineragraphy, Experimental Petrology

Economic Geology B: Detailed study of selected major deposits
representing particular types of mineralization; geological setting,
petrology, mineralogy and genetic aspects. Experimental work in ore
genesis—isotope studies, trace elements, phase equilibria, inclusions
in minerals. Mineragraphy: Reflected light optics: orthoscopic and
 conoscopic rotation phenomena, determinative methods, textural
interpretation of ores. Experimental Petrology: Theoretical Petrology.
Phase diagrams Application of thermodynamics to petrological
problems. Experimental petrology. Laboratory: Economic Geology and
Mineragraphy Study of regional setting, current research, petrology and
mineragraphy of selected deposits dealt with in lectures.

2. Micropalaeontology

Morphology, stratigraphic distribution and significance of the principal
microfossil groups: foraminifera, ostracoda, conodonts, spores and
pollen, dinoflagellates, coccoliths and chitinosa. Extraction techniques

3. Surfical Geology

Processes: weathering and landforms, mass movement, gully and sheet
erosion. Fluvial processes and drainage development. Aeolian, glacial,
periglacial and coastal processes. Neotectonics. Soil and surficial
sediment evaluation: pedological processes, gully formation. Soil fabric
analysis at all scales. Principles of surficial stratigraphy. Map analysis
and preparation: contour patterns of landforms; geological and
gemorphologic interpretation of topographic maps. Soil classification, soil
map preparation, lithostratigraphic maps. Problems of mapping
Quaternary geology. Quaternary geology: methods of dating, sea level
change, glacial sequences, surficial geology of non-glaciated areas
of Australia, especially the Riverine Plain. Quaternary sequences in
Canada and Europe.

25.404 Geology IV Honours

Field assignment with appropriate work in the laboratory on material
collected; the results of both field and laboratory investigations to be
presented in a graduation thesis. Advanced lectures, practical work and
semesters. Short laboratory assignments on specific problems may be
given. Further details of the Honours course may be had from the Head
of School.

25.151 Geoscience IA

For students who do not intend studying geology beyond first year. The
first part during Session 1 is identical to the first part of 25.011 Geology I,
but during Session 2 certain additional topics are presented, while
others are treated in less depth than in 25.011 Geology I. No further units
in Geoscience are available after this course. Physical Geology: The

25.102A Biochemistry of Macromolecules

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 lecture course and to provide
experience in modern biochemical techniques.
41.102B Physiological Biochemistry S2 L3T9
Prerequisites: 41.101 & 2.002B.

41.102C Plant Biochemistry S2 L2T4
Prerequisites: 41.101 & 2.002B.
The biochemistry of the major pathways characteristic of plants; topics include the energetics and carbon path of photosynthesis, glycolate cycle, growth hormones and regulatory phenomena, nitrogen fixation and assimilation. Experimental work to illustrate and amplify the course utilizes radioactive isotopes and a number of newer techniques.

41.102D Biosynthesis of Plant Metabolites S2 L2T4
Prerequisites: 41.101 & 2.002B. Co-requisite: 41.102C.
This unit complements 41.102C and is taken with it. Topics: cell wall formation and the synthesis and mobilization of reserve materials; biosynthesis of amino acids, its regulation and their conversion into non-protein materials, e.g. alkaloids and cyanogenic glycosides; aromatic ring formation and the isoprene pathway as a source of rubber, steroids, carotenes and essential oils. Flower pigments and phytalexins. A combined practical with unit 41.102C illustrates and amplifies the subject and includes a wide range of the latest techniques.

41.103 Biochemistry Honours
Advanced training in selected areas of biochemistry including a supervised research program of 500 hours' minimum duration that places emphasis on the use of specialized techniques relevant to the research area. A written thesis on the research is required.

School of Biological Technology

Undergraduate Study

42.101 Introduction to Biotechnology S2 L2T4
Prerequisites: 2.121, 2.131, 17.021, 10.011 or 10.001 or 10.021B and 10.021C.
The application of biochemical systems or their products in industry. Industrial uses include production of single products such as amino acids, vitamins, antibiotics etc, single cell protein, alternate fuels from renewable resources and fermented foods and beverages. Biological waste treatment, aspects of pollution control, biodeterioration biodegradation and principles of enzyme technology will also be described. Concepts relevant to productivity in these systems include: thermodynamic feasibility, techniques of environmental and genetic manipulation, choice of the appropriate biological catalyst(s) for a particular process, regulation of gene activity, principles of equipment design and biochemical engineering for construction of production plants. The laboratory component emphasises manipulation of different classes of microorganisms and the use of biochemical products involved in a variety of biotechnological areas.

42.102A Biotechnology A S1 L2T4
Prerequisites: 41.101 and 42.101 or 44.101.
The basic principles involved in the operation of microbial processes on an industrial scale. Includes: the selection, maintenance and improvement of microorganisms; the influence of physical and chemical factors on the microbial environment; the control of environmental factors; the effects of operational patterns on batch and continuous flow cultivation; aeration and agitation; scale-up of microbial processes; air and media sterilization; the harvesting, purification and standardization of products. The principles involved in microbial processes for chemical, pharmaceutical and food production, microbial waste treatment and environmental control. The laboratory component includes manipulation of microorganisms, laboratory-scale fermenter operation, microbial enzyme isolation, visits to industrial fermentation plants and industrial seminars.

Undergraduate Study

17.031 Cell Biology
Basic cell structure; membranes, organelles, prokaryotic and eukaryotic cells; cellular locomotion; basis biological molecules; enzymes: structure and metabolic role, cellular compartmentalization and enzyme function; diffusion, osmosis and active transport; theory of inheritance, linkage, gene interaction, sex determination, mutation, selection and evolution; information transfer and protein synthesis.

Requirements for Practical Work
A list of equipment required for practical work will be posted on the notice board in the ground floor of the Biological Sciences Building. Students must purchase this material before the first practical class.
42.102B Biotechnology B S2 L2T4
Prerequisite: 42.101
Application of principles of biotechnology to the analysis and design of microbial processes of industrial relevance (antibiotics, microbial enzymes, single-cell protein from carbohydrates and hydrocarbons, fermented foods and beverages, amino acids and vitamins, microbial polysaccharides, activated sludge and photosynthetic processes for waste treatment, microbial leaching of low-grade minerals). Emphasis on quantitative approaches: mass and heat balance calculations, kinetic and thermodynamic analysis, detailed equipment design and specification, process design and layout, process simulation, plant location, application of optimization techniques. The economics of microbial processes are considered and comparison made with alternative modes of production or treatment. The economics of agroindustry in Australia using microbial processes. Marketing of fermentation products, clinical trials required, legal constraints, patent rights. Technical and economic feasibility studies, and a design project.

42.103 Biological Technology (Hons)
Advanced formal training in selected areas of biotechnology and participation in one of the School's research projects.

School of Botany

Undergraduate Study

43.101 Introductory Genetics S2 L2T4
Prerequisites: 17.001 or 17.011 & 17.021 or 17.031 & 17.021.
Various aspects of molecular, organismal and population genetics, including: meiotic and non-meiotic recombination, genome variations, mutants and mutation rates, cytoplasmic inheritance, gene function, genetic code, gene structure, collinearity of polynucleotide and polypeptide, control of gene action, genes and development, population genetics, genetics and improvement of plants and animals.

43.111 Flowering Plants S1 L2T4
Prerequisites: 17.001 or 17.011 & 17.021 or 17.031 & 17.021.
The vegetative and floral morphology of angiosperms with special reference to variations in morphology, elements of biological classification, nomenclature and identification of native plants. Weekend fieldwork is part of the course.

43.121 Plant Physiology S2 L2T4
Prerequisites: 17.001 or 17.011 & 17.021 or 17.031 & 17.021 and 2.001 or any two (2) units of 2.111, 2.121, 2.131.
A student may apply to the School for variation of the prerequisite.
The physiology of the whole plant including a consideration of photosynthesis, inorganic nutrition, transport, translocation, physiology of growth and development, and plant growth substances and their application in agriculture.

43.122 Biochemical Approaches to Plant Physiology S1 L2T4
Prerequisites: 41.101, or 41.101A, 41.101B.
The physiology and biochemistry of plant lipids with special reference to developing tissues, development and ripening of fruit. Project work is an important part of the subject and some attendance is required outside the hours set down in the time-table. Reading and interpreting original scientific papers are an important part of these projects which relate to current work in the fields covered.

43.131 Fungi and Man S1 L2T4
Prerequisites: 17.001 or 17.011 and 17.021 or 17.031 and 17.021.
An introduction to the biology and taxonomy of fungi followed by a study of their economic importance to man. Includes: fungi as pathogens of plants and animals; use of fungi as food and in the production of useful chemical products; medical uses of fungi, including drugs and hallucinogens; degradation of organic matter, particularly in soils and of timber; interaction of fungi with other organisms; chemical control of fungi.

43.132 Mycology and Plant Pathology S2 L2T4
Prerequisite: 43.131. A student may apply to the School for variation of the prerequisite.
A detailed study of the fungi, including both saprophytic and plant pathogenic species. Topics: sexual and asexual reproduction and ultrastructure; morphology and taxonomy of members of major taxonomic groups; spore liberation, dispersal, deposition, germination, infection and the establishment of host-pathogen relationship; morphogenesis of vegetative and fruiting structures; cytology, genetics; ecological considerations of fungi in specialized habitats, survival mechanisms and methods of control of plant pathogens. The subject may be taken in either second or third year of the Science course provided that prerequisites have been completed.

43.102 Microbial Genetics S1 L2T4
Prerequisite: 43.101.
A detailed study of the mutational basis of microbial variation. Mutagens; mechanisms of mutagenesis; induction, enrichment, isolation and characterization of mutants; mechanisms of repair of mutational damage. Systems of gene transfer and recombination in fungi, bacteria and viral viruses; the use of these systems in constructing genetic maps, and as tools for probing aspects of microbial physiology and biochemistry. Genetic control of gene expression; the operon concept and its application to specific regulatory systems. Genetic code, collinearity between a gene and its product, genes within genes, suppression of mutations. Restriction and modification of DNA; genetic engineering—its implications and prospects. Genetics of nitrogen fixation. The subject may be taken in either second or third year of the Science course provided that prerequisites have been completed.
43.142 Ecology and Environmental Botany S1 L2T4
Prerequisites: 17.001 or 17.011 & 17.021 or 17.031 & 17.021.
The soil and atmospheric environments in which plants live and the interaction of plants with their environment. Emphasis on the role of environmental sciences in food production. Students are required to attend three week-day field excursions as part of the practical work. The subject may be taken in either second or third year of the Science course provided that prerequisites have been completed.

43.152 Plant Community Ecology S2 L2T4
Prerequisites: 43.111 and 17.012.
Recognition and delimitation of plant communities. Ecology of selected Australian vegetation types. Use of numerical methods and application of community concept to palaeoecology. Field work is an integral part of the course.

43.162 The Plant Kingdom§ S2 L2T4
Prerequisites: 43.111.
The major taxa of the Plant Kingdom with emphasis on the green plants. The evolution of basic vegetative structures, reproductive structures and genetic systems are studied. Field work will be part of the course.

43.172 Phycology and Marine Botany§ S1 L2T4
Prerequisite: 43.111.
The biology of freshwater, marine and soil algae with particular emphasis on the marine flora of S.E. Australia. Field work is part of the course.

43.182 Cellular and Developmental Botany§ S2 L2T4
Prerequisite: 43.111 or 43.121. This latter unit may be taken as a co-requisite in some circumstances.
The physiology, organization and interrelations of higher plant cells. Emphasis is placed on the interactions between plant cells and cellular events which control such processes as the regulation of growth and division, the perception of gravity by plants, secretion, seed germination and senescence.

These units may be taken in either second or third year of the Science course provided that prerequisites have been completed.
§This unit alternates each year with 43.112 Taxonomy.

3.111 Chemical Engineering IA
Unit 1 Flow of Fluids S1 L1T1
Prerequisite: 10.001 Mathematics I.

3.112 Chemical Engineering IB
Unit 1 Heat Transfer I S2L1T1
Introduction to steady state heat transfer including conduction, convection, radiation, boiling and condensation with an emphasis on problem solving. Resistance concept in heat transfer with series and parallel combinations.

Unit 2 Pumps and Pumping S2 L2T2
Prerequisite: 3.111 Unit 1 Flow of Fluids.
Types of piping and fittings. Blow cases. Air lift pumps, reciprocating pumps, centrifugal pumps and gear pumps. Blowers and compressors.

3.128 Chemical Engineering Principles II
This subject consists of 3.121 Chemical Engineering IIA Units 1 and 2, and 3.123 Chemical Engineering IIC Units 1 and 2.

3.121 Chemical Engineering IIA
Unit 1 Mass Transfer (Theory) S1 L1T1
Prerequisites: 2.002A Physical Chemistry. 3.111 Chemical Engineering IA.

Unit 2 Heat Transfer II (Theory) S1 L1
Prerequisite: 3.111 Unit 3 Heat Transfer I. Co-requisite: 10.032 Mathematics.
An extension of the work covered in 3.111, Unit 3, with an emphasis on the fundamentals of conduction, convection and unsteady state heat transfer.
3.121 Chemical Engineering IIC

Unit 1 Fluid-particles Systems I

Prerequisites: 3.111 Unit 1 Flow of Fluids.

Interaction between particles and fluids: drag, terminal velocity, sedimentation, Flow through porous media, pressure gradient, filtration, fluidization, dispersion, multiphase flow, irrigated packed columns.

Unit 2 Multicomponent Systems

Prerequisites: 3.121 Unit 1 Mass Transfer (Theory), 3.122 Unit 1 Thermodynamics II.


School of Chemistry

Undergraduate Study

Level I Units

2.111 Introductory Chemistry†

Classification of matter and the language of chemistry. The gas laws and the ideal gas equation, gas mixtures and partial pressure. The structure of atoms, cations and anions, chemical bonding, properties of ionic and covalent compounds. The periodic classification of elements, oxides, hydrides, halides of selected elements. Acids, bases, salts, neutralization. Stoichiometry, the mole concept. Electron transfer reactions. Qualitative treatment of reversibility and chemical equilibrium, the pH scale. Introduction to the diversity of carbon compounds.

† Students who have passed 2.121 may not subsequently enrol in 2.111. A student meeting the 2.121 prerequisite is not permitted to enrol in 2.111 without the permission of the head of the School of Chemistry. Once a student enrols in 2.111 he must pass 2.111 before he can proceed to 2.121 or 2.131.

2.121 Chemistry IA

Prerequisites:

HSC Exam
Percentile Range Required
2 unit Science
(any strands) or
31 - 100
4 unit Science
(multistrand)
or 2.111
31 - 100


2.131 Chemistry IB

Prerequisites: Chemistry 2.111 or Chemistry 2.121.


Level II Units

2.002A Physical Chemistry

Prerequisites: 2.121 and 10.001, 10.011 or 10.021B and 10.021C.

Thermodynamics: first, second and third laws of thermodynamics; statistical mechanical treatment of thermodynamic properties; applications of thermodynamics: chemical equilibria, phase equilibria, solutions of non-electrolytes and electrolytes, electrochemical cells. Kinetics: order and molecularity; effect of temperature on reaction rates; elementary reaction rate theory. Surface chemistry and colloids; adsorption, properties of dispersions; macromolecules and association colloids.

2.002B Organic Chemistry

Prerequisite: 2.131.

Chemistry of the more important functional groups; aliphatic hydrocarbons, monocyclic aromatic hydrocarbons, halides, alcohols, phenols, aldehydes, ketones, ethers, carboxylic acids and their derivatives, nitro compounds, amines and sulphonic acids.

2.002D Analytical Chemistry

Prerequisites: 2.121, 2.131 and 10.001, 10.011 or 10.021B and 10.021C.

2.042C Inorganic Chemistry S1 or S2 L2T4
Prerequisites: 2.121 and 2.131.
Chemistry of the non-metals, including B, C, Si, N, P, S, Se, Te, halogens, and noble gases. Chemistry of the metals of groups IA, IIA, and Al. Typical ionic, giant-molecule and close-packed structures. Transition metal chemistry, including variable oxidation states, paramagnetism, Werner's theory, isomerism of six and four co-ordinate complexes, chelation, stabilization of valency states. Physical methods of molecular structure determination. Chemistry of Fe, Co, Ni, Cu, Ag, Au.

Level II/III Units

2.003A Physical Chemistry S2 L3T3
Prerequisite: 2.002A.
Thermodynamics, including non-ideal systems; advanced electrochemistry; statistical thermodynamics; applications to gases, liquids and chemical equilibria; states of matter.

2.003B Organic Chemistry S1 or S2 L2T4
Prerequisite: 2.002B.
Aromatic Chemistry: Stereochemistry of acyclic systems; classical and non-classical strain in cyclic systems; stereochemistry and conformation of monocyclic and polycyclic compounds; synthesis, reactions and rearrangement of monocyclic compounds, including stereoelectronic selectivity; transannular reactions in medium rings. Synthesis and reactions of fused and bridged polycyclic systems. Heterocyclic Chemistry: Synthesis and reactions of the following hetero-aromatic systems: pyrrole, furan, thiophene, pyridine, quinoline, isoquinoline. Flavones and isoflavones. Pyrimidine; pyrrole, furan, thiophene, indole, imidazole.

2.003C Inorganic Chemistry F or S1 L2T4
Prerequisite: 2.042C.
Coordination chemistry: valence bond and crystal field theory and their application to magnetic and spectral properties of complexes. Factors affecting the stability of complexes; unusual oxidation states of transition metals. Chemistry of the groups IIIA (the lanthanides and actinides), IVA, VA, VIA, and VIIA. More advanced chemistry of groups IIIB, IVB, VB, VIIB and VIIIB and the noble gases.

2.003D Instrumental Analysis S1 or S2 L2T4
Prerequisites: 2.002A and 2.002D.

2.003E Nuclear and Radiation Chemistry S1 or S2 L2T4
Prerequisites: 2.121 and 2.131 and 10.001, 10.011 or 10.021B and 10.021C.

2.003H Molecular Spectroscopy and Structure S2 L3T3
Prerequisites: 2.121 and 2.131.
Absorption and emission of radiation. Atomic spectra. Molecular spectroscopy: vibrational, including infrared and Raman; UV-visible; instrumentation and sample handling. Magnetic resonance. Mass spectrometry with particular reference to structure determination. Laboratory and tutorial work to illustrate the above, including inspection of major instruments.

2.003J Fundamentals of Biological Chemistry F L2T4
Prerequisites: 2.121 and 2.131. Excluded: 2.013L, 41.101A.
Aspects of the chemical and physical properties of materials important in biological systems. Methods of separation, of purification and estimation, and correlations of structure with reactivity. Methods of separation and identification, such as gel permeation, discussed as appropriate to each topic. Significance of isomerism in biological systems. Optical and geometrical, absolute configuration. Amino acids, peptides and protein structure. Relevant properties, acid/base properties, pK values, zwitterion isoelectric points. Simple peptide synthesis.


2.003K Solid State Chemistry S2 L2T4
Prerequisites: 2.121, 2.131 and 10.001 or 10.011.
The determination of crystal structures by single crystal diffraction: X-ray and neutron diffraction methods. Practical and automated aspects of the solution of crystal structures. Applications to inorganic, molecular and macromolecular crystals. Patterns of solid state structure. Structures of crystals with unusual and valuable chemical and physical properties. Solid state reactions, surfaces properties and catalysis. Applications of EPR, NMR and mass spectrometry.
2.003L Applied Organic Chemistry  F L1T2
Prerequisite: 2.002B. Excluded: 2.033L.
Discussion at advanced level of the chemistry of selected commercially important groups of organic materials. Mechanisms of reaction and physical properties, together with methods of examination, in overall unit approach, correlating structure with behaviour. Emphasis on breakdown to model systems. Theory of physical techniques, refractometry, polarimetry etc. from basis of additivity. Fatty acids with emphasis on unsaturation, thermal and oxidative polymerizations, alky1 resins, analysis of mixtures. Waxes and steroids; selected natural and synthetic macromolecules; polymerization processes, including treatment of initiators, chain transfer agents, retarders. Vulcanization and sulphur-deft reactions. Photochemical processes; electro-organic chemistry. Fine chemicals, soaps and detergents. Aspects of metal catalysis in industry.

2.003M Organometallic Chemistry  S1 or S2 L2T4
Prerequisite: 2.02B.
Synthesis, structure and reactions of metal alkyls and aryls; metal carbonyls, isonitriles and acylides; compounds of metals with unsaturated hydrocarbons; organic chemistry of boron; silicon; Phosphorus and arsenic; application of organometallic compounds in organic synthesis and homogeneous catalysis.

2.013A Introductory Quantum Chemistry  S1 L2T4
Prerequisites: 1.001 or 1.011 and 2.121, 1.001 or 10.021B and 10.021C.

2.013B Synthetic Organic Chemistry  S2 L2T4
Prerequisite: 2.03B.

2.013C Advanced Inorganic Chemistry  F or S2 L2T4
Prerequisite: 2.042C. Co-requisite: 2.003C.

2.013D Advanced Analytical Chemistry  S1 or S2 L2T4
Prerequisite: 2.002D. Co-requisite: 2.03D.

2.013E Advanced Nuclear and Radiation Chemistry  L2T4
Prerequisite: 2.03E.
Advanced nuclear instrumentation and special counting methods; isotope effects and isotope separation methods; nuclear reactors, accelerators and isotope production; radiopharmaceuticals, radioactivity; biochemical applications including radioimmunoassay techniques and the preparation of short lived radiopharmaceuticals; isotope methods applied to chemical measurements; industrial tracer applications.

Laboratory classes involve experiments with the above topics. This subject is only available to non-Chemistry majors. It may not be included in course programs 0201, 0202, 0203, 0204, 0241, 0242 and course 3910.

2.013L Chemistry and Enzymology of Foods  F L1T2
Prerequisite: 2.002B. Excluded: 2.033L, 2.043L, 2.023L, 2.053L.
The chemistry of food constituents at an advanced level, the relationship between the chemistry and enzymology associated with the origin and handling of foods. Stabilization of the stability of constituents, changes in colour and texture occurring during processing and storage. Methods of assessment, chemical and physical.

General classification of constituents, role of free and combined water, fixed oils and fats, rancidity of enzymatic and antioxidative origin, anti-oxidants--natural and synthetic--theories on mechanisms of action, carbohydrates, reactivity, role in brewing processes, carbohydrate polymers, starch structure, enzymic susceptibility and mode of action, estimations, enzymic degradation and enzymic browning, reactions and stability of natural pigments, vitamins, preservatives.

2.023A Quantum Theory of Atoms and Molecules  F L2T1
Prerequisites: 2.002A and 10.2111 and 10.2112.
Wave mechanics--linear operators; Schrödinger wave equation, applications, methods of solution; variation principle, linear combinations, perturbation theory. Many-electron problems--central field methods; electron spin; Fermi-Dirac statistics; angular momentum operators; Coulomb repulsion, two-electron operator; spin-orbit coupling; perturbation; natural orbitals; j-j coupling; Zeeman effect, vector coupling and Wigner coefficients; permitted transitions; Group theory--symmetry operators; matrix representation; irreducible representation; characters of a group; non-rigid molecules; antisymmetry operators.

2.023B Natural Product Chemistry  S1 or S2 L2T4
Prerequisite: 2.003B.
The isolation, structure determination, synthesis and biosynthesis, and the reactions of selected classes of organic compounds of biological significance. The chemistry of plant and animal products--terrestrial
and marine. Examples from carbohydrates, terpenoids and steroids, alkaloids and other naturally-occurring heterocyclic systems. Interdisciplinary aspects of the topic.

2.023L Biological and Agricultural Chemistry
F L1T2
Prerequisite: 2.002B. Excluded: 2.053L, 2.013L, 2.043L.


2.033A Physical Chemistry of Macromolecules
S2 L2T4
Prerequisites: 1.112C or 2.002A and 2.002B or 2.003J.

Macromolecules in solution; determination of molecular size; gel permeation chromatography, diffusion, sedimentation, viscometry, osmometry and light scattering. Spectroscopic properties: circular dichroism and optical rotary dispersion; conformation of macromolecules in solution; helix-random coil transitions. Macromolecules in the solid state; X-ray diffraction; basic structural features.

2.043A Environmental Chemistry
F or S2 L3 T3
Prerequisites: 2.002A and 2.002D.

Physico-chemical aspects of atmospheric chemistry; dispersion of colloids and solid matter; photochemical reactions. Hydrological cycles, reactions in the sea, rivers and estuaries; chemical characteristics of surface and sub-surface waters. Corrosion of metals.

Either: Simple digital and analog computer models of ecological systems based on chemical data and physico-chemical properties.

Or: Distribution of elements and nutrient cycles in water; organic carbon cycles, oxygen balance (redox processes in aquatic systems). Chemical models of these processes (including an introduction to simple computing). Practical project (mostly field work) dealing with nutrient cycles.

2.043L Chemistry and Enzymology of Foods
F L2T4
Prerequisite: 2.002B. Excluded: 2.013L, 2.023L, 2.053L.

As for 2.013L but in greater detail and depth.

2.053A Chemical Kinetics and Reaction Mechanisms
F or S2 L3T3
Prerequisite: 2.002A.


2.053L Biological and Agricultural Chemistry
F L2T4
Prerequisite: 2.002B. Excluded: 2.023L, 2.013L, 2.043L.

As for 2.023L but in more detail and depth.

2.063A Advanced Molecular Spectroscopy
S2 L2T4
Prerequisite: 2.013A.


School of Community Medicine

Undergraduate Study

79.201 Population Genetics Theory
S1 L2T3
Prerequisites: 45.101 or (10.311A and 10.311B) or (10.321A and 10.321B) or 10.331.

Models of genetic systems and growth of populations, with essential mathematical and statistical theory, illustrated by examples from human genetics. Limitations of models. Models of population growth in discrete and continuous time with non-overlapping generations. As extension of the Hardy-Weinberg principle to finite populations and several loci. The concept of inbreeding, calculation of co-efficients of consanguinity, effects of inbreeding, effective population number. Fisher's Fundamental Theorem of natural Selection. Advanced treatment of factors maintaining gene frequency equilibria in populations, including balance between mutation and selection, heterozygotic advantage, and genetic loads. Effects of finite population number, including random gene frequency drift.

79.202 Quantitative Methods in Human Genetics
S2 L2T3
Prerequisites: 9.801 or 43.101; 9.811 or (10.311A and 10.311B) or (10.321A and 10.321B) or 10.331 or 12.152 or 45.101.

Application of the principles of genetics and the theory of statistics to the study of human populations. Estimates of population parameters, uses of measures of relatedness, discrimination between models of inheritance, design and analysis of surveys of families and twin pairs, genetic models of qualitative and quantitative variation, use of probability models in genetic counselling and determining effects of medical intervention.
The role of education in Australian society with particular attention to Australian education systems, inequality and the role of the Department of Education and implications of sociology for educational aims. Adolescent groups, including deviants and cultural deprivation. Social structures in the secondary school and the school in the local community. A study of teacher groups, including role and professionalism.

Electives are offered in Education subjects and in Methods and Curriculum studies to meet the differing professional needs and interest of students with varying backgrounds. Students are encouraged to initiate further elective courses. No restriction is placed on the choice patterns of students.

Normaly students are required to choose one option from each of the three areas of Educational Psychology, Philosophy of Education and Sociology of Education. This requirement may be varied at the discretion of the Head of School with respect to students who have completed two or more years of undergraduate study or one year with a graded pass, in one of the above areas.

The options presented depend on student demand. Particular combinations of subjects are not permitted because of similarity of content. For details refer to the Diploma in Education booklet available from the School office.

Examines Commerce curriculum and methodology as taught to Forms 2 to 4 and Economics as studied in Forms 5 and 6. The New Commerce Syllabus follows the Special Development of Concepts Approach and concentrates on topics that are relevant and meaningful. It also lays a conceptual foundation for the study of Economics in the senior school. Note: A knowledge of book-keeping is necessary to the study of Commerce Methods and tutorials are arranged for those with no previous bookkeeping experience.

The seminar part of this subject has three constituents. The curriculum studies strand deals with the objectives of English teaching as well as the content, range and suitability of work for each form and level. The Method studies strand examines how these objectives can be implemented in the classroom, with special emphasis on imaginative methods of approach. The professional skills strand is a workshop program aimed at developing techniques for exploring and implementing new approaches to English.

It is possible for graduates who have at least two years of English or at least two years of drama accompanied by one year of English in the undergraduate course, to elect to study double English Method. In addition to the single Method course, such students will intensively study specific areas of the English curriculum and participate in practical investigations related to the teaching of English.
58.025 Geography Method
Lecture-discussions are aimed at interpreting the syllabuses through a variety of approaches, understanding the structuring of individual lessons as part of work units, and examining methods of presentation of material in relation to pupil motivation, classroom management and varying class ability levels. Followed by an in-depth treatment of some aspects of Geography teaching through workshops structured around a range of audio-visual materials. Experience is gained in the production of fieldwork units, printed materials, wall charts, black and white and colour 35 mm slides, overhead transparency materials, sound cassettes and multi-media kits.

58.026 German Method
See 58.024.

58.027 History Method
History Method: The seminar program covers the nature and value of history, study of history syllabuses with major attention devoted to those of New South Wales, varieties of lesson procedures and teaching techniques, development and use of audio-visual aids, methods of assessment and related matters. The program is closely related to practice teaching experiences. In the latter part of the course, particular attention is given by the planning and development of units of work accompanying resource material.

58.028 Industrial Arts Method
The application of principles dealt with in philosophy, psychology and theory of education to the teaching of the Industrial Arts. An introduction to commonly-used Industrial Arts instructional procedures such as the demonstration, the application of audio-visual aids and effective management of Industrial Arts workshops and laboratories. Curriculum developments are explored using an historical approach, leading to a consideration of the philosophy, aims and objectives of current Industrial Arts programs. Other aspects of the subject are devoted to the planning and development of units of work accompanying resource material.

58.029 Library Method
Prepares teachers for the role of School Librarian whose special competence is professional knowledge about the materials of instruction. The newly developing school library is an Educational Resource Centre and includes a wide variety of learning resources which are integrated with school curricula. Lectures/discussions are planned to include aspects of Educational Media, Library Administration, Children's Literature, Cataloguing and Classification, Selection and Evaluation of Materials and Integration with School Program.

58.030 Mathematics—Single Method

58.031 Mathematics — Double Method
These subjects have six main aims to examine the objectives of teaching mathematics at the secondary level, to consider elementary notions concerning a mathematics curriculum and its construction, to compare the New South Wales secondary mathematics syllabuses with those of other systems, to discuss strategies and methods of teaching mathematics with special reference to the School and Higher School Certificates, to prepare mathematics aids for classroom use and to consider evaluation in all its aspects.

It is possible for graduates whose major subject is science to take Mathematics Method as a single teaching subject in conjunction with Science Method. The program for this subject is devised on an individual basis by consultation.

58.032 Science — Single Method

58.033 Science — Double Method
These subjects are designed to build confidence in the use of a wide variety of teaching techniques and procedures. A range of resource materials developed in recent curriculum projects in secondary science both in Australia and overseas are introduced. An attempt is made to investigate the practical implications for science teaching of topics dealt with in Education A: eg contributions of the learning theorists, curriculum theories, student evaluation and class control.

Owing to the increasing emphasis on integrated science courses in NSW high schools, an attempt is made to offer a diverse range of electives covering aspects of the teaching of the traditional disciplines, physics, chemistry, biology and geology, as well as electives on various themes common to all science teaching, such as quantitative thinking, the philosophy of science, evaluation of science learning and social aspects of science.

Some sections of the subject are compulsory, eg those designed to introduce the features basic to all science teaching and certain sections for those students with no tertiary study in the scientific discipline concerned. Students may choose a major component of studies from the range of electives offered. A certain minimum number of electives must be completed during each Session by students taking Science as a Double Teaching Subject. A smaller number of electives must be completed over the whole year by students taking Science as a Single Teaching Subject. However, all students are encouraged to complete as many electives as time and interest allow.

58.034 Slow Learner Method
Prerequisite: A major in psychology is required. In special cases the Head of School may exempt a student from this requirement.

Children designated 'slow learners' may be placed in segregated classes, usually referred to as General Activity Classes, or they may be integrated into ordinary level or modified level classes. An integrated approach to the teaching of language and communication, social sciences and mathematics is adopted, with particular emphasis upon remedial reading. The psychology of the slow learner is treated, with a balance between the theoretical issues and practical classroom techniques involved. With the co-operation of schools, observation and involvement in regular practical class experience is undertaken early in the course.

58.035 Social Science Method
Prerequisite: 1. a 3-year major in History or Geography or Economics (that subject being the major method) plus 2. at least 2 years of university study in one or more of the following: History, Geography, Asian Studies, Economics, Economic History, Government, Political
Science, Anthropology, Sociology (the units of a major sequence are not accepted if already used as the basis for selection of the major teaching method). Other social science subjects may be considered appropriate to Social Science/Asian Social Studies or Social Science/Ancient History.

Opportunity exists for a limited number of students (provided they have the necessary prerequisites) to do one of the above method combinations. All three subjects emphasize the development of effective methods of building knowledge, inquiry skills, attitudes and values about societies—ancient and modern, eastern and western. A feature of each subject is the opportunity to prepare and test resource material.

58.036 Spanish Method
See 58.024.

58.037 Method and Curriculum Studies
S2 L6
A flexible arrangement of studies is offered, which may include method options, further study in particular teaching subjects, and cross method studies.

58.051 Practice Teaching
F L2
In Session 1 there are approximately 12 days of supervised teaching practice in schools, followed in Session 2 by a block practice of 20 days.

58.052 Applied Studies in Teaching
F L1
Teaching techniques and practice: micro-teaching, audio-visual instruction, selected activities and school visits. Selected activities: each student is encouraged to nominate a project or practical activity, to be completed either in a school or at the University.

Undergraduate Study

Education Subjects in Science Education, Mathematics Education

58.512 Introduction to Education
F L2
The subject serves as a basis for study in greater depth of educational psychology, philosophy and theory of education research methods and sociology of education in succeeding years and shows the contribution of each to the practice of teaching. This contribution is discussed in lectures and seminars and illustrated by school visits which take place at various times throughout the year. This time allocation for the subject includes 14 hours spent in fieldwork involving the visits to schools.

58.513 Education IIA
F L4
Prerequisite: 58.512. Co-requisite: 58.523 or 58.533 or 58.071.

Educational Psychology: Areas considered include learning, cognition and individual differences.

Philosophy and Theory of Education: Curriculum theory and curriculum development, theory in education with reference to educational objectives, and an analysis of values leading to a concept of education. Various concepts examined within the context of theory and values, such as: responsibility and punishment, indoctrination, equality, creativity.

Research Methods in Education: An introduction is provided to the methods and principles of research in education. Topics emphasize those techniques necessary for the analysis and interpretation of data from educational research designs of both the experimental and survey type. Includes: simple and multiple correlation and regression, and a detailed treatment of analysis of variance.

Sociology of Education: An investigation of the role of education in Australian society with particular attention given to inequality, adolescent groups including a study of deviants and cultural deprivation. A sociological analysis of classroom groups including group interaction, reference group theory and role theory. An analysis of social structure in the secondary school and the school in the local community. A study of teacher groups with particular attention given to role and professionalism.

58.523 Education IIB
F L2T3

Science Curriculum and Instruction: The application of principles dealt with in Educational Psychology and Philosophy and Theory of Education to the particular case of science teaching. Learning in science and the role of teacher demonstrations/pupil practical work. Preparation and use of audio-visual aids, lesson planning and classroom management. Assistance in the development of teaching skills is provided in peer group microteaching situations. Resources for learning the professional responsibilities of the Science teacher. The teaching of selected topics in Biology, Chemistry, Geology and Physics is commenced and this is developed further in the fourth year.

58.514 and 58.584 Education IIA
F T4 and F T3
Prerequisite: 58.513. Co-requisite: 58.524 or 58.534 or 58.072.

Students enrolled in the BSc(Ed) Degree Course (406) take the subject 58.514 Education IIA which consists of four options, each of which occupy two hours per week of class time for one session.

Students enrolled in the BSc DipEd Degree Courses (4079 and 4080) take the subject 58.584 Education IIA which consists of three options, each of which occupy two hours per week of class time for one session.

The options may be chosen from those given below. However, whether a given option is offered depends on the availability of staff in a given year and other options may be added from time to time.

Options in Educational Psychology

Educational Measurement: The purposes and methods of measurement available to the classroom teacher, including the use of standardized tests. The place of Guidance Counsellors in an evaluation program is considered.
Motivation in the Classroom: Observations of various forms of communication in the classroom suggestive of inner needs. Consideration is given to procedures to facilitate awareness of such motives and possible methods for satisfying or controlling them.

Personality: Structure and culture; normal and abnormal behaviour; adjustment and readjustment; attitudes and traits; analysis and measurement; a further look at empathy, role playing and sensitivity training in the classroom.

Computer Assisted Instruction: Within the next few years computers will be commonplace in the classroom requiring teachers with new skills and knowledge. The purpose of this option is to provide a foundation for the skill development necessary to use CAI effectively. It involves both theoretical and practical components, the latter using computer terminals located in the School of Education. No prior experience is assumed.

Programmed Instruction: Students develop appropriate skills and knowledge in the field of programmed instruction to enable them to function effectively in the preparation of instructional sequences which are educationally sound. The use of computer assisted instruction, allowing a practical evaluation of its effectiveness. Students co-operate in the preparation and trialling of programmed materials which might contribute to available teaching resources in their area.

Audio-visual Aids: Students discuss psychological concepts such as attention, novelty and its determinants, perception in relation to the process. This provides a basis for a study of the techniques and equipment involved in the preparation of teaching aids for classroom use. A group project utilizing these skills and knowledge should produce some useful, psychologically-based materials.

Options In Philosophy and Theory of Education

Ethical Theory and Moral Education: The educational implications of the major ethical theories; the structure of ethical theories; educational implications consistent with a given structure; and practical issues concerned with moral education.

Justification for Teaching: Examines certain broad aims of education and expectations of teachers in order to see how far they might be justified and how practically possible they might be. The stated aims of the Wyndham Scheme are then put to the theoretical and practical test. Finally students are asked to defend the teaching of certain subjects with special reference to science and industrial arts, by showing what benefits will be brought to their pupils. (This option does not duplicate material covered in curriculum and instruction strands).

Methodology for Criticism: 1. Develops methods and techniques whereby meaningful discussion of educational issues can take place. 2. Critical discussion on issues such as: examinations, assessment, schooling, discipline, equality of opportunity, university degrees, authority, curricula, subjects, indoctrination.

Moral Education in the Schools: Such issues as: What is moral education? How best can it be brought about? Should schools be concerned with moral education? Do schools confuse moral with practical, prudential, religious and even aesthetic issues, and what might be the consequences and implication of this?

Social Philosophy and Education: Some of the main themes in social philosophy, including the social principles of democracy, freedom and authority, constraint, the individual and society, equality of opportunity. The social functions of the school, and the problems of the above concepts within the closed society of the school.

Philosophy of the Curriculum: How is knowledge involved in education? Are there structures of knowledge which could structure the curriculum? What are the connections between knowledge and skill and knowledge and understanding? What is meant by 'integration of the curriculum'? What is at issue between the advocates of specialized versus general education? Should there be a compulsory curriculum? What is the importance of psychological and sociological considerations in the curriculum formation?

The Arts of Education in Theory and Practice: The theories of some influential educationists and some attempts to apply them. Progressive theories and schools, and the de-schooling movement.

Philosophy of Science and the Teaching of Science: Post 'classical' philosophy of science with an emphasis on the work of Kuhn, Lakatos and Feyerabend, and some elements of Karl Popper's work as a background. What is scientific activity? Evaluation of School Science courses and ways in which they can be improved. The social dimensions of science and recent work on values, goals, purposes in scientific activity, encompassing wide ranging issues from rationality in science; religion and science; Are Marxism and Freudianism scientific enterprises? What bases are there for the 'Science for the People' movement? What influences science in a capitalist society?

Science and Religion in Education: Comparison of religious beliefs with science, the place of science and religion in the school. Do science and religion conflict? Are religious beliefs like scientific beliefs? Are they rational? How can they be supported? Can faith replace reason? Is there a God? Can there be miracles? Has the teaching of religion a place in schools? Should a science teacher avoid disturbing religious belief? Has the teacher a right to argue for a religious or atheistic viewpoint? The problem of evil.

Options in Research Methods in Education

Educational Research: Provides a basis in some depth for applied educational research. It forms a sequence with the research methods strand in 58.513 Education IA.

Options in Sociology of Education

Australian Education Systems—An Historical and Sociological Analysis: The historical development of Australian education. The sociological perspective is applied to investigate whether Australian education systems are meeting the needs of Australian society.

Society Today and Tomorrow Implications for Education: Some major characteristics of and trends in society, such as urbanization, social change, bureaucratic organization, the counter culture, community vs. association, and work and leisure patterns, with special reference to the ecological situation and the significance of values and value transfer. Possible curriculum implications and some of the fundamental questions these social issues raise concerning the role education plays in society.

Socio-Cultural Influences on the Education of Adolescents: The application of the sociological perspective to the education of adolescents.

The Education of Disadvantaged Groups: The education of disadvantaged groups in Australia, in particular, women and migrants.

58.524 Education IIB

FL2T3

Prerequisites: 58.513, 58.523.

Science Curriculum and Instruction: Curriculum theory and applications of the principles involved in curricula for secondary school science in Australia and overseas. The specification of objectives of instruction, the sequencing of content, and evaluation of learning outcomes in
science in the secondary school. Consideration of the Personal Development Program in New South Wales High Schools. Professional responsibilities and professional development of the Science teacher. The teaching of Biology, Chemistry, Geology, and Physics.

58.533 Education IC  F L3
Prerequisites: 10.001 or 10.011, 58.512. Corequisite: 58.513.
Mathematics Curriculum and Instruction: The application of principles dealt with in Educational Psychology, Philosophy and Theory of Education and Sociology of Education to the particular case of mathematics teaching. The study of theories of learning as related to the teaching of mathematics. The development of skills in strategies and methods of teaching mathematics, lesson planning and classroom management. Discussion of the place of aims in the teaching of mathematics and the preparation of some aids. A study of the history and development of mathematics and the implications of these for teachers. The teaching of topics related to New South Wales syllabuses in mathematics, years 7 to 10.

58.534 Education IIC  F L3
Prerequisites: 58.513, 58.533.
Mathematics Curriculum and Instruction: Examination of the aims of mathematics as they are related to the Aims of Secondary Education in New South Wales. Comparison of New South Wales syllabuses with interstate and overseas curricula. Curriculum development and implementation. A systematic review of books and journals relating to mathematics education. An examination of recent trends in mathematics teaching especially the mathematics laboratory, group activities and structured materials. Professional responsibilities and professional development of the mathematics teacher. Use of the computer and its applications. Consideration of various forms of evaluation of student achievement. The teaching of topics related to New South Wales syllabuses in Mathematics, years 11 and 12.

58.542 Education IID  F L3
Industrial Arts Curriculum and Instruction: Industrial Arts education designed to provide students with basic knowledge about classroom management, workshop organization and the various special methods employed in the teaching of the industrial arts in secondary schools. Covers a general consideration of the scope of secondary school industrial arts and, through a general survey of syllabus material, a preliminary consideration of aims and objectives of the various school programs including the place of personal skills development in Industrial Arts.

The laboratory program provides basic workshop/laboratory methodology applicable to junior school industrial arts, such methodology being particularly applicable to the syllabi for Form 1 Craft, Technics years 7-10 (in particular those strands drawing from the broad areas of woodworking and metalworking), and Industrial Arts, years 9-10 (in relation to its workshop/laboratory aspects only).

58.543 Education IID  F L3
Industrial Arts Curriculum and Instruction: Session I: preparation of students for their first period of Teaching Practice, as set out under the subject 'School Experience I'. Examines: School structure and organization, the roles of teachers and administrators and the rights, responsibilities and legal obligations of teachers; methods of instruction applicable to the various aspects of secondary school industrial arts, with use being made of micro-teaching techniques to allow students the opportunity for personal development in the general area of class control and management; safety in school workshops and laboratories, particularly in relation to teacher responsibilities for adequate safety instruction and supervision. The requirements of the NSW Department of Education and the Department of Labour and Industry are examined, the aim being to develop in the students desirable attitudes and practices relating to the provision of a safe working environment in the secondary school.

The laboratory component is primarily directed towards workshop/laboratory methodology applicable to junior school syllabi, with emphasis upon more advanced methodology applicable to such strands of Technics as cabinet-making, Building Construction, Plastics and Boating in FRP. Also covers methods directed towards the Graphical Communication strand of Technics, the Technical Drawing Syllabus years 9-10, and the Graphics aspects of the Industrial Arts—Engineering Science syllabus. Students work in the drawing studio during this part of the subject.

58.544 Education IID  F L1T2
Industrial Arts Curriculum and Instruction: Covers the curriculum development in industrial arts, further discussion of instructional procedures and the evaluation of student achievement, teaching programs and courses of instruction. Examines significant developments in industrial arts education using an historical approach and this, together with an examination of relevant physiological and psychological factors, is aimed at assisting students to formulate their own philosophy of industrial arts education. Detailed work on the planning and management of facilities is undertaken, including consideration of resource centres in industrial arts complexes. Principles of evaluation introduced in Educational Psychology will be applied to the case of Industrial Arts and special needs and techniques considered.

Innovation in industrial arts education; the development of new courses and syllabuses, and the application of other areas of Industrial Arts such as industrial design and traditional technology to secondary school industrial arts education programs.

The laboratory program for Session I will include methodology directed towards the design aspects of the Industrial Arts syllabus (years 9-10), particularly relating to the application of the principles and methods of industrial design. It is envisaged that students may work with several of a wide variety of materials, including wood, metal, plastics, FRP or leather.

Session II: laboratory work is directed to the implementation of the Industrial Arts—Engineering Science syllabus, years 1-12, particularly to the concept of design analysis. Emphasis is placed upon the development of an integrated laboratory/investigation program by the students.

In addition, students as part of their laboratory program are required to submit a major project at the end of Session II.

58.584 Education IIA  F T3
See entry under 58.514.

58.593 School Experience I  F T3
Prerequisite: 58.512. Corequisite: 58.523 or 58.533 or 58.071 or 58.543.
A gradual introduction to teaching. Each student is placed in a high school for one half-day per week in Session 2. The student is associated with a teacher and progresses from a helping role to one in which he assumes responsibility for conducting complete lessons.

58.594 School Experience II  F T3
Prerequisites: 58.533 and 58.071 or 58.523 or 58.533 or 58.542 and 58.543. Corequisites: 58.524, 58.534 or 58.072 or 58.544.
The subject provides extensive opportunities for students to develop teaching competence. Each student is placed in a high school for one day per week and works in close association with a teacher.
Subject Descriptions

Graduate Study

Master of Education Course

Miscellaneous Subjects

58.201G Comparative Education
Methodology of comparative education, with particular reference to
cultural perspectives. Selected educational problems in various
advanced societies. Problems peculiar to underdeveloped countries.

58.202G Educational Planning and
Administration
General principles of administration applied to the organization and
administration of education. The factors underlying the administration
of the Australian educational systems, both government and independent.
Politics and economics of education. Aspects of social psychology
relevant to educational administration.

58.204G Educational Theory In
the Twentieth Century
A critical appraisal of the work of theorists such as: Dewey, Buber,
Berdyaye, Sartre, Hornor Lane, A.S. Nell, Nunn, Hutchins Mannheim,
Makarenko. Recent educational theories relating to the curriculum such
as those of Bruner and Hirst. Selected viewpoints on moral education.
An analysis of the concept of theory in relation to educational writing.

58.206G History of Education
1. History of Western Education. 2. History of Australian Education. In
each part there is both a study of movements and cultures as well as of
distinguished thinkers. Part 1 provides a background for understanding
2. Australian education traces the growth of national education, the
relationship between denominational and national systems, the impact
of various acts and the work and influence of men such as Wilkins,
Parker, Rusden and Board.

58.212G Mathematics Education
Theories of instruction, theories of cognitive growth and principles of
curriculum development; the application of these theories and principles
aspects of a mathematics curriculum; an examination of
new mathematics curricula in Australia and overseas in terms of the
above theories and principles.

58.215G Social Sciences Education
The place of the various social science disciplines, including history in
secondary education. Topics include philosophical and methodological
issues as they relate to education, principles of curriculum development
and examination of recent trends in secondary curricula in the various
social studies subjects in Australia and overseas.

58.219G Educational Research I
An introduction is provided to the methods and principles of research in
the social sciences. A study is made of the theory of educational
research relevant to report or thesis presentation. Practical experience
is also provided. The subject content includes elementary statistics and
research design.

58.220G Educational Research II
Prerequisite: 58.219G or equivalent.
An extension of Educational Research I. Emphasis is placed on the
collection and reporting of data using a variety of research designs. The
associated analytic techniques are discussed in depth.

58.223G Research Design I
This subject, along with Research Design II, is specifically designed for
the non-mathematically inclined student who wishes to conduct
qualitative educational research and/or who wishes to be able to
understand and evaluate research studies in Education. An introduction
is provided to the methods and principles of educational research.
Looks specifically at qualitative research and examines the
methodology used.

58.224G Research Design II
Prerequisite: 58.223G.
Emphasis on qualitative research. In addition, evaluation of both
quantitative and qualitative research projects is made.

58.225G Multivariate Analysis in
Educational Research A
Prerequisite: 58.220G or equivalent.
Provides a basis for understanding the principles underlying those
multivariate techniques most commonly applied in educational
research. The mathematics required for understanding multivariate
analysis, consisting mostly of matrix algebra, is taught as part of the
course. Other topics include characteristics of samples from the
multivariate normal population, simultaneous tests of significance, a test for complete
dependence, and tests of hypotheses on means.

58.226G Multivariate Analysis in
Educational Research B
Prerequisite: 58.225G. Co-requisite: 58.221G or 58.222G.
Extends the study of multivariate analysis in education provided in
Multivariate Analysis in Educational Research A. Topics: the principles
underlying the multivariate analysis or variance, independence of sets
of variables and canonical correlation, principal components analysis,
factor analysis of applications to classification problems.

58.227G Educational Research III
Prerequisite: 58.220G or equivalent.
An advanced course in research design with an emphasis on the
analysis of data from controlled experiments and surveys. Topics: theory
and methods of scaling; repeated measures analysis of variance;
analysis of covariance; quasi-experimental design; the methodology of research; multiple regression; trend analysis.

58.228G Educational Research IV
Prerequisite: 58.227G.
Extends some of the topics discussed in Educational Research III and in
addition includes: factorial experiments in which some of the interaction
are confounded; Latin squares and related designs; analysis of the
results of a series of experiments; path analysis and other related topics.
Seeks to acquaint students with some of the current literature in
research design, and it may therefore be considered as preparation for
future research in this area.
Philosophy of Education Subjects

58.254G The Philosophy of Mind and Educational Theory  F L2
A survey of theories of the nature of the mind, followed by discussion of specific issues chosen from among the following, together with the implications of various positions for educational theory: behaviourism, materialism and dualism; the Skinner/Chomsky debate; the explanation of action; the nature of concepts and conceptual development; knowledge of other minds; freedom of the will; minds and machines; rationality.

58.256G Moral Education I  S1 L2
Concept of morality; values and moral values; relationship between educating and valuing. Concepts of heteronomy and autonomy. Kant and links with empirical research of Kohlberg's, Dewey's proposals for moral education. Moral education and the forming of dispositions. Claims to moral knowledge. Moral education and rationality; the problem of transcendental justifications; the problem of form and content in rational moral education. Indoctrination: relationship between intention, method and content.

58.257G Moral Education II  S2 L2
Prerequisite: 58.256G.


58.258G Philosophy of the Curriculum I  S1 L2
Philosophical considerations relevant to an analysis of such issues as integration of the curriculum, specialized versus liberal education, the 'hidden' curriculum, compulsory curricula, vocational education, the education of the emotions, etc. Analysis of such concept as rationality, autonomy, equality, freedom, intelligence, creativity, knowledge, self-realization, wants, needs, interests, etc, with a view to establishing their significance in curriculum construction.

58.259G Philosophy of the Curriculum II  S2 L2
Prerequisite: 58.258G.

An examination of epistemological, logical, psychological and sociological considerations in curriculum construction. Issues in traditional epistemology and logic are related to psychological questions concerning, eg mental abilities, behavioural objectives and the concept of mind and to sociological questions concerning knowledge and control and the social context of knowledge. The relevance of such work to current curriculum issues such as the relationship between means and ends in curriculum construction and the nature of the 'hidden curriculum' is explored.

58.264G Philosophy of Science Education  S2 L2
Prerequisite: 58.334G.

An advanced and detailed examination of recent debate in philosophy of science, featuring the work of Popper, Lakatos, Kuhn, Feierabend, Althusser etc. Particular attention is paid to epistemological issues and how the debate affects the philosophical problem of knowledge and its development. This provides the foundation for examining curricula and classroom practices. Additionally, the ramifications for philosophical, sociological and psychological studies of education are presented.

58.265G Philosophy of Literary Education I  S1 L2
Philosophical and psychological considerations in analysis of the aims and nature of literary education, eg the relevance of literary criticism and procedures to the teaching of English in schools, moral concerns in literature and their significance for teachers and children (including the question of censorship and the issue of 'suitable' books for children); the role of 'feeling' and emotion in literary response; the nature of 'empathy' in the context of fiction; creativity; intention; imagination; etc.

58.266G Philosophy of Literary Education II  S2 L2
Prerequisite: 58.265G.

58.267G Philosophy of History Education I  S1 L2

58.268G Philosophy of History Education II  S2 L2
Prerequisite: 58.267G.
Covering law theories of historical explanation. Empathy in history and in education. Relativism and objectivism in history: implications for teaching. History as a form of knowledge.

58.269G Philosophy of Maths Education I  S1 L2
The nature of mathematical reflection and its place in education. Mathematics as a form of knowledge, as science and as art. The relation of mathematics to other disciplines. The incorporation of mathematics into an integrated curriculum.

58.270G Philosophy of Maths Education II  S2 L2
Prerequisite: 58.269G.
The foundations of mathematics, theories about mathematics learning, and the construction of curricula. The logic of mathematics.

58.271G Philosophy of Language Education I  S1 L2

58.272G Philosophy of Language Education II  S2 L2
Prerequisite: 58.271G.
Language as racial tool. The role of language in transmitting culture, values and attitudes. Sociolinguistics and ideology. Language and learning. Depth grammar, innate structures, reinforced responses and the intentional development of language.
58.273G Philosophy of Social Science 
Education I 
S1 L2

The philosophical foundations of social science are examined and classical debates in this field investigated. Debates concerning such notions as: law, causality, action, explanation, understanding, theory, observation etc. Methodological considerations are examined as they bear on the practice of the social sciences: empiricism, rationalism, positivism, behaviourism etc. This leads to an examination of ideology in social science. Curricula development and classroom practices in social sciences are examined in the light of the above.

58.274G Philosophy of Social Science 
Education II 
S2 L2

Prerequisite: 58.273G.

An extension of the Session I subject. Its foci depend on student interest and developments in the early course. Areas of study that may be undertaken include: a detailed investigation of particular social sciences, such as history, economics, anthropology, geography, etc. with a view to better understanding their theoretical and ideological dimensions; a study of the problems associated with an integrated social science; detailed investigation of values in social science and their justification and implementation; and the bearing of the above subjects on social science teaching and curricula development.

Sociology of Education Subjects

58.305G The Role of Education in Society A 
S1 L2

An investigation of the actual social effects of educational institutions. Examines orthodox and radical education literature on, for instance, the school's role in socialization and social selection and allocation, the economic functions of education, the child's experience of school, the history of education, and the changing role of the university. Liberal, Deschooling and Marxist explanations of existing educational systems and their social functions are then considered, with special reference to the claim that schools cannot be reformed towards pleasant, democratic and educative institutions while they are required to carry out the social and economic functions they now perform.

Attention is then given to the concept of education and to educational ideals, for the purpose of clarifying thought on the extent to which existing schools and universities are educative.

Finally, related issues within the area of general social theory are considered, especially the consensus and conflict perspectives on society. Marxist social theory is briefly examined, as is the social and educational significance of values, ideas, knowledge and ideology.

58.306G The Role of Education in Society B 
S2 L2

Concerned with the aims education should pursue in view of some major characteristics, trends and problems evident on the global scene. Main focus is the possibility that continued expansion of industrial production and consumption might soon generate serious resource, environmental and international problems. If this growth commitment has a doubtful future, the present aims of education may have to be reversed. Central themes include the population problem, resources, environmental impact, the relations between rich and poor nations, the capitalist economic system, materialist elements in western culture, and futurology.

58.311G Mathematical Applications in the Sociology of Education A 
S1L2

An introduction to mathematical approaches to the sociology of education. The application of elementary mathematical models to educational administration, the analysis of classroom processes, and educational outcomes, as well as other areas of specific interest to students are considered. Topics are selected from measurement, structural, causal, and dynamic models, and game-theory. The mathematical prerequisites for an understanding of these topics is taught as part of the course. No mathematical skills beyond those normally acquired in high school are required initially.

58.312G Mathematical Applications in the Sociology of Education B 
S2 L2

Prerequisite: 58.311G.

Extends the study of the application of mathematical models in the sociology of education provided in the subject Mathematical Applications in the Sociology of Education A. Topics may include: methodology and the logic of sociological enquiry; an evaluation of recent studies on Australian educational systems; how to use the computer in sociological research. Students are encouraged to conduct their own research study into an area within the field of sociology of education.

58.313G Sociology of Australian Education A 
S1 L2

Investigates whether Australian education meets the needs of modern Australian society and examines major current issues affecting educational innovation. An introduction is given to the sociological perspective and its application to education. Topics: socialization, equality of educational opportunity; the education of migrant, aboriginal and disadvantaged youth; girls and schooling; and sociology of the school and classroom. Looks at recent educational innovation in the areas discussed.

58.314G Applied Sociological Research 
S2 L2

Introduces students to applied research in the sociology of education. Content is tailored to the needs of students enrolled in the course and may include: methodology and the logic of sociological enquiry; evaluation of recent studies on Australian educational systems; how to use the computer in sociological research. Students are encouraged to conduct their own research study into an area within the field of sociology of education.

58.315G Sociology of Australian Education B 
S1 L2

Unit value 1

Examines Australian educational systems and institutions from a sociological perspective. Topics: the economics and politics of Australian education, pressure groups in education, the role of the local community in education, centralism, the role of the Australian Department of Education, teachers-professionalism and the bureaucracy. An introduction is provided to developments in the sociology of education in Australia.
58.316G Advanced Sociology of Australian Education  
Prerequisite: 58.313G and 58.315G, or equivalent studies.
Examines in more depth the issues described in the Sociology of Australian Education A and B. Emphasizes the implications for education of recent research and theory in the sociology of education and investigates the principles and the methodology of the sociological perspective.

58.317G Sociological Theory with Special Reference to Education A  
Prerequisite: 58.313G and 58.315G, or equivalent studies.
The nature of social theory is examined. Some of the underlying concerns of sociology such as social order, social change and social structure are reviewed. A study of some of the major theorists in sociology. Stresses the contribution and application of sociological theory to the sociology of education.

58.318G Sociological Theory with Special Reference to Education B  
Prerequisite: 58.313G and 58.315G, or equivalent studies.
A survey of some of the major theoretical themes in sociological theory. These would include such topics as functionalism, conflict, symbolic interaction, sociology of knowledge. Emphasis on the relevance of these themes to research and analysis in sociology of education.

Science Education Subjects

58.330G General Issues in Science Education  
Prerequisite: 58.330G or equivalent.
Aims of science education; theories of cognitive growth and learning; principles of curriculum development and issues influencing curriculum development in science education; eg science and society, integration of the sciences, the nature of science and 'scientific attitudes'; a survey of recent research in science education.

58.331G The Development of Scientific Concepts  
Prerequisite: 58.330G or equivalent.
A consideration of the nature of concepts and conceptual structure in science and theories of cognitive development, followed by the implications of Piagetian, Brunerian and neo-Piagetian developmental models for secondary science education.

58.332G Evaluation in Science Education  
Prerequisite: 58.330G or equivalent.

58.333G Primary Science Education  
Prerequisite: 58.330G or equivalent.
Aims of primary science education, the problem of integrating science with other subjects in the primary curriculum and implications of the theories of Piaget, Bruner and Gagné for teaching science in the primary school. Examination of such elementary science curricula as Science A Process Approach, Science Curriculum Improvement Study and Science 5-13.

58.334G The Nature of Science and Science Education  
Prerequisite: 58.330G or equivalent.
The nature of science and its implications for science education. Aspects of scientific methodology, scientific concepts, aims in science and characteristics of scientists. Includes an examination of the nature of theories, the propagation and testing of theories, the characteristics of scientific communities, the personalities of scientists, scientific attitudes, the nature of observations, experiments, laws, definitions, explanations and predictions, and the role of 'control' in science. The effectiveness of the historical case study, the scientific paper, the experiment, and the direct exposition of the nature of science in portraying the scientific enterprise.

58.335G Curriculum Development in Science  
Prerequisite: 58.330G or equivalent.
Curriculum theory discussed and used in investigating recent curriculum development projects in science. Factors involved in curriculum planning, such as objectives, content selection, learning experiences, and evaluation; influences involved in providing impetus for change and in implementing new curricula. The recent projects investigated include A.S.E.P., B.S.C.S., C.H.E.M.S., I.S.C.S., P.P., S.C.I.S.P. and Nuffield Foundation Projects.

58.336G Chemical Education  
Prerequisite: 58.330G or equivalent.
The learning and teaching of chemistry at the primary, secondary and tertiary levels with the main emphasis on the secondary level. Special reference to be made to aims in chemical education, the relationship between chemistry and other scientific and related disciplines, chemistry in integrated studies, the role of chemistry in a total curriculum, current curriculum materials available, recent changes in the chemistry being taught and the methods of teaching being applied, chemical concepts and procedures offering special 'difficulties in being taught or learnt and recent research into the learning and teaching of chemistry.

58.337G Physics Education  
Prerequisite: 58.330G or equivalent.
Recent innovations in the teaching of physics in schools and universities; Piagetian-based programs; changes in the role of laboratory work; the use of historical materials; physics curriculum projects; the use of computers in physics instruction; physics in integrated subjects.
Educational Psychology Subjects

58.360G Introduction to Educational Psychology  S1 L2
Psychological factors influencing the behaviour of teachers and learners. Various aspects of classroom and school organizational procedures analyzed with regard to their psychological importance in the teaching/learning process.

58.361G Introduction to Child Growth and Development  S1 L2
An introductory theoretical and practical subject offering an understanding of cognitive, physical, social, and emotional development in children. Better known theories of development and the importance of all this for the practising teacher.

58.362G Child Growth and Development  S2 L2
An extension in depth of the analysis of development commenced in Introduction to Child Growth and Development. Course work concentration on the application of research and theory, including a child study. Fundamental assumptions and methodology associated with the concept of development.

58.363G Cognitive Development and Classroom Learning  S1 or S2 L2
Prerequisite: 58.360G or equivalent.
Includes considerations of the theories of Bruner, Gagne, and Piaget. Implications of these theories for instructional sequence and design.

58.364G Instructional Technology  S1 or S2 L2
Prerequisite: 58.360G or equivalent.
Those variables which may be manipulated to optimize the instructional process. The instructional principles introduced in other subjects extended and developed to provide a psychological foundation for pre-planned instructional sequences. Includes considerations of programmed instructions and computer-assisted learning. A small project in the student’s discipline area is required.

58.365G Motivation and Attitudes In School Settings  S1 or S2 L2
Prerequisite: 58.360G or equivalent.
Procedures to facilitate awareness of motives and possible methods for satisfying or controlling them. The relationship between fundamental motives and attitudes to both educational and social issues.

58.366G History of Educational Psychology  S1 or S2 L2
Prerequisite: 58.360G or equivalent.
Basic assumptions behind and the origins and progressive development of basic concepts in educational psychology and their impact upon education. Includes the major aspects of educational psychology and the influences upon it which remain relevant to the present day.

58.367G Contemporary Issues In Educational Psychology  S1 or S2 L2
Prerequisites: 58.360G or equivalent plus one other educational psychology subject or equivalent.
Analysis of the major issues which preoccupy educational psychologists in the world today. Wherever possible, it deals with the Australian contribution to those areas being considered.

58.368G Psychology, History and Literature  S1 or S2 L2
Prerequisite: 58.360G or 58.361G or equivalent.
How psychological research may give new insights in literary criticism and teaching and research in history and literature.

58.371G Advanced Developmental Psychology in Educational Behavioural Settings  S1 or S2 L2
Prerequisite: a 3-year major in Psychology at undergraduate level or equivalent.
Students choose one of three intensive studies: 1. Pre-School and Infant Development. Major implications for education and further development of environmental and hereditary interactions up to the age of seven years. 2. Development in the Primary School Child. Major research findings and developmental theories as they affect the primary school child. 3. Adolescents and youth: major factors which influence development from the age of entry into secondary school until the acceptance of adult roles in society. Includes: study of students in tertiary institutions and late adolescents in work situations, as well as concentrating on young people of secondary school age.

58.372G Learning Theory and Classroom Instruction  S1 or S2 L2
Prerequisite: a 3-year major in Psychology at undergraduate level or equivalent.
The history, the development and the contemporary application of major learning theories with emphasis on their effects on classroom instructional patterns and the insights they provide which might help modify future instructional patterns.

58.373G Behaviour Modification In the Classroom and School Setting  S1 or S2 L2
Prerequisite: a 3-year major in Psychology at undergraduate level or equivalent.
The basic principles of conditioning and their application to the manipulation of learning behaviours in educational environments.

58.374G Social Learning and Education  S1 or S2 L2
Prerequisite: a 3-year major in Psychology at undergraduate level or equivalent.
The principles of social learning and the implications of the major research findings as they affect educational procedures.
58.375G Psychophysiology in the Classroom S1 or S2 L2
Prerequisite: a 3-year major in Psychology at undergraduate level or equivalent.

A practical study of human reactions to standard interaction in the learning and teaching situation. Physiological changes on both learner and teacher under differing conditions of stress and motivation related to relevant psychological constructs such as attention and perception.

58.377G Personality Development and Counselling Techniques in Education S1 or S2 L2
Prerequisite: a 3-year major in Psychology at undergraduate level or equivalent.

Clinical methods and counselling procedures suitable to any of the educational setting. The student may concentrate on children at any of the stages of development: primary school age, secondary school age, tertiary institution.

58.378G The Role of the School Psychologist S1 or S2 L2
Prerequisite: a 3-year major in Psychology at undergraduate level or equivalent.

Vocational guidance techniques and problems, appropriate concepts of testing, and the place of psychology in the school curriculum.

58.379G Exceptional Children in the Classroom S1 L2
Prerequisites: 58.360G plus 58.361G plus 58.362G or equivalents.

After examining problems involved in the term ‘exceptional children’ an operative definition for exceptionality in the classroom would be established. The study of exceptional children that should give teachers concern would range from the genius to the physically, emotionally and mentally impaired.

58.380G Exceptional Children — Language Disabilities S1 L2
Prerequisites: 58.360G plus 58.361G plus 58.362G or equivalents.

A study of the theoretical views of neobehaviourists, psycholinguists and other language theorists is briefly reviewed before examining language disorders in children which arise from 1. environmental causes; 2. neurological and other disorders within the child; and 3. malfunctioning due to faulty interaction between the child and his environment. Examination of some of the material available for assessing language functioning.

58.381 Advanced Exceptional Children A S2 L2
Prerequisites: a 3-year major in Psychology plus 58.379G and 58.380G.

Within the context of the theoretical study for this course, the student elects to work with and instruct an exceptional child in skill areas for a minimum of 20 hours spread over a period of 10 weeks. A written record of the diagnoses, instructional goals, and progress of the child is kept. Depending on the particular classification of the exceptional child (e.g. autistic, blind, cerebral palsied, etc) the student undertakes an extensive review of the literature. With this general theoretical background and practical experience gained in working with a child, a report is to be prepared in which hypotheses would be proposed for future research.

58.382G Advanced Exceptional Children B S2 L2
Prerequisites: a 3-year major in Psychology plus 58.379G and 58.360G.

A student selects a different area of exceptionality from that studied in Advanced Exceptional Children. Practical experience for a minimum of 20 hours spread over 10 weeks is required. Emphasis on tailoring the instruction to the needs and limitations of the exceptional child and to supplying guidance to the parents. In the theoretical area emphasis is placed on the educational and vocational opportunities available for people classified under the exceptional condition being studied, with particular reference to Australia. The final report is to take the form of a submission with carefully documented evidence for the recommendations proposed.

58.383G Computer-Assisted Instruction I S1 or S2 L2
Prerequisite: Computer-Assisted Instruction I, or equivalent.

An introduction to CAI emphasizing the language TUTOR. No background knowledge of computing is expected. Students construct psychologically-sound lessons in an area of their choice using terminals located in the School of Education. The bulk of the coursework is taught by means of CAI at the completion. The course students are expected to be familiar with the KRONOS editing system and have written both linear and branching programs. (These form the basis of assessment).

58.384G Computer-Assisted Instruction II S2 L2
Prerequisite: Computer-Assisted Instruction I, or equivalent.

Further theoretical investigations and practical applications of CAI. The use of TUTOR is extended and students are introduced to the role of other languages (such as BASIC and APL) in the development of CAI systems. Complex branching programs are constructed and tested by students. A comparison of language efficiency, involving translation, is expected.

58.385G Cognitive Development in Children and Adolescents S1 or S2 L2
Prerequisite: 58.220G or equivalent.

The importance of twentieth-century theories of cognitive development for educational practice. How do psychologists attempt to 'explain' thinking and its development in children? This subject brings together in development sequence the major twentieth-century theories of cognitive development. It examines the concepts, the assumptions, and models which these theories have utilized, and unscovers old concepts in new guises. Discussion covers the utility for education of each of the cognitive theories included.

58.386G Applying Experimental Psychology in Education S1 or S2 L2
Prerequisite: 58.220G or equivalent.

Current psychological experimentation in education. Designed to provide students with a sufficiently detailed background to enable them to carry out experimental research in selected areas. These areas reflect contemporary literature and staff interests. Students are expected to design and/or execute a small project in collaboration with staff members. This project is intended to be of use in students’ subsequent research activities. Students are also expected to familiarize themselves with one or more of the texts. In addition, selected research papers are discussed throughout the course.

58.501G Introduction to Administration F L2
Prerequisite: a 3-year major in Psychology at undergraduate level or equivalent.

Theoretical background to administration: theories of administration; systems theory; social aspects of systems; organization theory; role theory; decision theory. Emphasis on behavioural aspects with application to situations in educational administration.
### Subject Descriptions

<table>
<thead>
<tr>
<th>Unit Code</th>
<th>Subject Title</th>
<th>Credits</th>
<th>Notes</th>
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<tbody>
<tr>
<td>58.502G</td>
<td>Communication theory and theory of human relations</td>
<td>S1 or S2 L2</td>
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<td></td>
<td>Interpersonal relations in administration; communication theory; small and large groups; influence of individuals, pressure groups, public opinion; communication in decision-making in the context of interactive and rational models.</td>
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<td>58.503G</td>
<td>Personnel in Educational Organizations</td>
<td>S1 or S2 L2</td>
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<td></td>
<td>Theory and practice of leadership. Studies of leadership roles in primary and secondary schools; the principal; deputy-principal; subject master; special master. The school inspector: relationships with school personnel. Departmental officers in regional and central offices. Supervision and evaluation of teachers. Leadership in tertiary institutions, particularly in the small college. The training of administrative personnel: simulation and other techniques.</td>
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<tr>
<td>58.504G</td>
<td>Planning and Policy-Making in Education</td>
<td>F L2</td>
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<td></td>
<td>Social, political and economic determinants of policy; educational policy-making in the wider context of social planning. Implementation of policies; policy review and evaluation; planning for change in education. Major issues and techniques in planning. Relationship between politics and planning. Planning in State Departments of Education: relationships with Public Service Boards. Planning within the Australian Government Department of Education. State-Commonwealth financial arrangements. Studies of selected committee reports on education preceding educational change: Robbins, Plowden, James, Noel Radford, etc. Curriculum change, evaluation and innovation.</td>
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<tr>
<td>58.505G</td>
<td>The Australian Education System</td>
<td>F L2</td>
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<td>58.506G</td>
<td>Research Methods in Educational Administration</td>
<td>F L2</td>
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<td></td>
<td>Basic methods to enable students to interpret and evaluate published research in educational administration and to conduct minor research projects. Content includes the design of interviews and questionnaires, introductory parametric and non-parametric research methods, and research design.</td>
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<tr>
<td>58.520G</td>
<td>Adult Education in Australia</td>
<td>S1 or S2 L2</td>
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<td>Prerequisites: 58.501G and 58.505G.</td>
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<td></td>
<td>Organization and administration of adult education in Australia; possibilities for change; comparisons with current provisions in selected countries such as UK, Denmark and Sweden, Holland, West Germany.</td>
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<tr>
<td>58.521G</td>
<td>Aspects of Administration in Tertiary Institutions</td>
<td>S1 or S2 L2</td>
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<td>Prerequisites: 58.501G and 58.505G.</td>
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<td>Regulations and policy-making processes, the functions of Commissions and the role of Australian and State governments; interpersonal relations, including communication between academic and administrative staff, staff and students; School and Faculty organizational structures; influences on decision-making including student involvement; implications of financial constraints on tertiary institutions; accreditation of courses and evaluation of the outcomes of tertiary institutions.</td>
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<td>58.522G</td>
<td>Change in Education</td>
<td>S1 or S2 L2</td>
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<td>Prerequisites: 58.501G and 58.505G.</td>
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<td>58.523G</td>
<td>Comparative Educational Systems</td>
<td>S1 or S2 L2</td>
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<td>(One only of 58.523G and 58.530G to be selected)</td>
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<td>Prerequisites: 58.501G and 58.505G.</td>
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<td>Educational systems in other countries such as UK, USA, France and New Zealand; comparisons between and among countries, including Australia; methodological considerations in comparative education.</td>
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<td>58.524G</td>
<td>Economics of Education</td>
<td>S1 or S2 L2</td>
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<td></td>
<td>Prerequisites 58.501G and 58.505G.</td>
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<td>Selected aspects of the economics of education concerned with the planning and allocation of educational resources, such as education as consumption and investment — private and social; expenditure on education and returns to education; education and economic growth, economics of educational planning, cost-benefit analysis, budgeting and finance management. The concept and practice of integrated economic and social planning, with illustrations from France and other countries.</td>
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<tr>
<td>58.525G</td>
<td>Ethical Issues Relating to Educational Administration</td>
<td>S1 or S2 L2</td>
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<td>Prerequisites: 58.501G and 58.505G.</td>
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|           | An examination of some of the relevant ethical issues which may arise in educational administration, at both institutional and national levels of
Professional Studies

58.526G History of Educational Administration in Australia  S1 or S2 L2

Prerequisites: 58.501G and 58.505G.

The rise of national education from the formation of the dual boards in 1848. The main administrative and organizational changes following the Council of Education and the Public Instruction Act, together with the political, organizational and administrative influence of leaders such as Parkes, Rusden and Wilkins. Major organizational and administrative changes in New South Wales education in the first half of the twentieth century.

58.527G Legal Aspects of Educational Administration  S1 or S2 L2

Prerequisites: 58.501G and 58.505G.


58.528G Planning Techniques  S1 or S2 L2

Prerequisites: 58.501G, 58.505G, 58.506G.

Forecasting and planning techniques including operations research techniques appropriate for education systems. Techniques include Planning, Programming, and Budget System (PPBS), Program Evaluation and Review Technique (PERT) and Critical Path Method (CPM).

58.529G Politics of Education  S1 or S2 L2

Prerequisites: 58.501G and 58.505G.

Emergence of Politics of Education in USA from situations of political conflict, such as school segregation, demands for community control of schools and for accountability, militancy of teachers' unions and other pressure groups. Pressure groups in Australian education: student politics, teachers’ unions, etc. The Australian government's role in education and ensuring relations with States; educational policies of political parties.

58.530G School and Community in Other Countries  S1 or S2 L2

Prerequisites: 58.501G and 58.505G.

Relations between the school and the home, and the school and the community it serves; the concept of the community school; the curriculum related to community resources. Relevance of comparative study to Australian school—community relations.

58.531G Selected Aspects of Educational Administration  S1 or S2 L2

Prerequisites: 58.501G and 58.505G.

Content and principal reference books to be determined.

Provides students with an opportunity to study under visiting professors or lecturers with special experience and competence in selected aspects of educational administration not already offered in the course. One possible example is the Harvard case study method of analysis, problem-solving, and managing resources as applied to the administration of schools or of wider educational systems.

58.532G Social Issues Relevant to Educational Administration  S1 or S2 L2

Prerequisites: 58.501G and 58.505G.

The social and educational issues with which the educational administrator may be involved, such as accountability of teachers and educational administrators to society; urban education; rural education; compensatory education; the problem of distribution of resources in relation to educational disadvantage in Australia.

58.533G Project in Educational Administration  F

On a topic approved by the School, with appropriate consultation and supervision.

58.601G Theories of Counselling  F Y1L3 Y2L1

Includes fundamental considerations of models for guidance and pupil personnel procedures. Cognitively and effectively oriented counselling approaches, leading to the development of a personal theory of educational counselling. Relationships to practice, both actual and possible. Counselling objectives, their interaction with therapeutic relationships, the process of change, and the contributions of research and evaluation concerning these concepts. Counselling within a bureaucracy, professional ethics concerning the child, the parent, the school and the education authority, and the conflicts in client-employee expectations. The counsellor and society, socially acceptable as opposed to socially unacceptable behaviour, individuality, personal liberty, social expectations and conformity are discussed in the perspective of the counsellor's future role.

58.602G Psychological Analysis: Assessment and Diagnosis  F Y1L3 Y2L1

Lectures, demonstrations, discussion and practice covering the rationales of psychometrics and the development of a philosophy of testing, concepts of individual differences, and normative constructs as well as the administration of a range of instruments of measurement and evaluation. Tests of both group and individual. Tests cover general ability and specific measures over both cognitive and personality fields. Practical work includes administration and a consideration of the principles behind each test, and a thorough coverage of marking, recording, interpretation, analysis of results, and the presentation of results to school staffs and other reportees of varying levels of sophistication. All age groups and levels of education are covered.
58.603G Counselling Interventions FY1L3 Y2L1
Covers both theoretical consideration and practical experience incorporating: 1. interviewing techniques: conduct, practice and assessment of the interview; 2. therapy and the individual child; 3. counselling techniques with groups and their evaluation; 4. principles of group dynamics.

Special and appropriate emphasis of these principles and practices in relation to the area of vocational guidance. Overlaps of these considerations with the concept of compensatory education leading to coverage of remedial teaching resources and methods, the diagnosis of disability and appropriate remediation, particularly in relation to the teaching of reading and number. Intervention strategies and the whole concept of consultation.

58.604G Personality Theories FY1L3 Y2L1
The history and importance of the development of major personality theories which affect counselling procedures. Depth theorists, behavioural approaches, factor analytic conceptions, and the contribution of major eclectic theories. Emphasis on the significance of each theory for the practical counsellor.

58.605G Human Development FY1L3 Y2L1
The major theories of child development relevant to counselling techniques and practice. Emphasis on learning theories, the relevance of cognitive development, and the importance of affective characteristics in relation to counselling procedures.

58.606G Contemporary issues in Counselling and Counselling Psychology
Considers issues which currently pre-occupy the deliberations of leaders in the field of counselling. The operation of guidance organizations in the Department of education and similar authorities. Systematic study of people record systems, case files, counsellor organizations in the Department of Education and similar authorities. Consultants in Special Education, Educational Clinics, and Specialist Counsellors, as well as area organization, materials, equipment and expenses.

The guidance functions of other Australian Government departments, Technical Education, the Health Commission and the Department of Labour and Industry. Related vocational agencies such as Vocational Guidance Bureau and Commonwealth Employment Service are studied and discussed in the light of major contemporary developments.

58.607G Research Methods and Evaluation in Counselling
A thorough study of research methods which are most appropriate to the counselling area. Oriented to other theoretical courses listed above, but also provides a sound basis for the compilation of special reports of theses by candidates.

58.608G Professional Practice
Preliminary theoretical considerations leading to the application of knowledge in a variety of counselling areas including the following:


The Lower Primary School: 1. Methods of observing and assessing developmental levels. The ingredients of intellectual, social and scholastic functioning. 2. Assessment and implications of lateral dominance. 3. Lower Primary casework. 4. Special activities organized to develop sound working knowledge of methods and techniques used in this area, including approaches to the teaching of Reading, Number and other skills.

Specialist Counselling: 1. Examination of issues involved and problems encountered in dealing with significantly atypical children. Visual, auditory and language Impairment. Children in Hospital Schools. In settings for the behaviourally disturbed and in the care of the Department of Youth and Community Services. 2. The role and function of the Specialist Counsellor. Procedure and practice.

The following field experience is also covered: 1. Initial observation of the School Counsellor at work. 2. Psychological and educational assessment practice. 3. Casework in Primary, Lower Primary and Secondary Schools. 4. Within Education Department facilities, practice with District School Counsellors in city and country settings; visits to acquire knowledge of the Area Guidance functions (Education Clinic, Adjustment, Duty Counselling, Assessment Officer Investigation), Vocational Camps, special education provisions; participation in research project. 5. Within other Government Departments, placement with District Officers of the Department of Youth and Community Services; visits to Vocational Guidance Bureau, Child Health Centres, Commonwealth Employment Service and other related agencies.

Servicing Subjects

58.061 Methods of Teaching I F L1T2
58.062 Methods of Teaching II F L1T2
58.063 Seminar and Thesis on Educational Issues FT2
58.071 Methods of Teaching IA (Industrial Arts Course) FT3
58.072 Methods of Teaching IIA (Industrial Arts Course) FT3
## School of Electrical Engineering

### Undergraduate Study

**6.600 Introduction to Computers**  
S2 L3T2  

Excluded: 6.620, 6.601A.

Introduction to programming; design and correctness of algorithms and data structures; and introductory computer organization, memory and operating systems. Programming in a high-level algorithmic language which provides simple, high-level program control and data structuring facilities.

Using computers: introduction to computing machinery, operating systems, command languages, and use of computer terminals.

Applications: introduction to some of the application packages that are generally available on computers (eg inquiry, statistics, linear programming and text formatting packages).

**6.680G Files and Database Systems**  
S2 L3T2  

File structures, database management systems and file interrogation systems in a text processing or bibliographical environment. Topics: relations, their mapping and normalization, access methods, stored data organization, data independence, data integrity and security, CODASYL databases, network, hierarchical and inverted file databases, relational databases and query languages.

## School of Geography

### Undergraduate Study

**27.602 Introduction to Human Geography**  
S1 L2T2½  

The relationships between man and the environment, their spatial consequences and the resulting regional structures that have emerged on the earth’s surface. Basic concepts and methods for studying the spatial organization of human activities, particularly as they relate to patterns of location and distribution; to the flows, movements and linkages between places and activities, and to the processes operating that give rise to variations from place to place, particularly between urban and rural areas. Australian and South-East Asian examples are used where relevant. Laboratory classes: presentation and description of geographical data, analysis of spatial patterns, together with appropriate statistical exercises. Includes a compulsory field excursion equivalent to 16 tutorial hours.

**27.802 Introduction to Physical Geography**  
S2 L2T2½  

The mechanism of the physical environment, with particular exemplification within the Sydney region. Geophysical and geological controls of landform development; fluvial, slope and coastal processes and landforms; cyclic and equilibrium approaches to landform studies. The global radiation budget and atmospheric circulation, weather and climate in the Sydney region. The hydrologic cycle. Processes and factors of soil formation and the soil profile. Controls of vegetation in the Sydney region. The ecosystem. Laboratory classes: study and use of geologic and topographic maps and air photographs; use of climatic data and the weather map; soil description. Two field tutorials, equivalent to 16 tutorial hours, are a compulsory part of the course. Students must provide basic drawing equipment.

**27.811 Physical Geography**  
S2 L2T2½  

Emphasizing inter-dependence of climate, hydrology, land forms, soils and vegetation in major zones. Classification of climates and world climatic patterns. Soil zonality and world soil patterns. World vegetation
types and distribution, and their controls. Studies of selected zones with particular reference to the Australasian region. Laboratory classes: climatic analysis and mapping, and analysis of natural landscapes, including airphoto interpretation, together with appropriate statistical exercises.

27.812 Human Geography  
Prerequisite: 27.802.
The urbanization process in underdeveloped and industrialized societies. Theories, concepts and principles relating to the location, size and spacing of settlements; the economic and social structure of urban areas; city-region relationships. Geographical perspectives on contemporary urban problems are offered, particularly those associated with the concentration of people and activities between regions and within cities. Emphasis on spatial variations in housing, employment and service provision.

27.813 Geographic Methods*  
Prerequisites: 27.801, 27.802.
An introduction to statistical procedures and field methods as used in both human and physical geography, including measures of dispersion; measures of spatial distribution; time series; probability distributions; samples and estimates; hypothesis testing; correlation and regression; tests for distribution in space; data collection and analysis; field observation.

27.153 Climatology  
Prerequisites: 1.001, 27.811 or 27.811 or 27.031 and 17.021.

27.143 Biogeography  
Prerequisites: 27.811 or 17.031 and 17.021.

In special circumstances the Head of School may give special permission for 27.801 to be taken as a co-prerequisite for this subject.

27.183 Geomorphology  
Prerequisite: 25.001 or 27.811.
Beaches and their response to waves, currents and sediment movement. Barrier systems, lagoons and estuaries. Rock platforms. Quaternary sea level changes. Hydraulic geometry of stream channels, including effects of sediment transport and man’s activities. Hillslope form, process and associated slope morphologies. Methods of slope measurement, analysis and survey. Hillslope models. Systems approach, equilibrium concepts and modeling in landform studies. Field projects in coastal and fluvial geomorphology, and laboratory time is devoted to statistical exercises using data collected from maps, air photographs and in the field.

27.133 Pedology  
Prerequisites: any two of 2.111, 2.121, 2.131 and 27.811, or 25.012 or 25.022. Excluded: 27.863.
Methodology of pedogenetic studies and the application of these studies to the understanding of soil-landform relationships. Soil physical and chemical properties and their interrelationships, emphasizing clay-mineral structure and behaviour, soil solution chemistry, soil water movement and the application of these properties to elements of soil mechanics. Assessment of land hazards and land capability as related to soil properties in natural, rural and urban landscapes, including assessment of soil fertility, swelling characteristics, dispersibility, erodibility and aggregate stability. Laboratory analysis of soil physical and chemical characteristics with emphasis on properties associated with land capability assessment. Statistical analysis of soil data and its application to mapping.

27.824 Spatial Population Analysis§  
Prerequisite: 27.812.
Population growth and structure in an urban and regional context, stressing the components and processes of population change: fertility, mortality and migration set within the framework of demographic transition theory. Theories of migration and mobility and of optimal populations. Demographic and social indicators for urban and regional analysis and their implications for disparities in living conditions, residential differentiation and regional growth. The adjustment of immigrant and migrant populations to the urban environment.

27.825 Urban Activity Systems§  
Prerequisite: 27.812.
Interaction in time and space within and between regions, stressing relationships between transportation, mobility and the environment of groups and individuals, as well as problems of accessibility to a wide range of activities, including services and employment. Patterns of flow, transaction and linkage between economic activities. Topics include: the journey-to-work, shopping and travel behaviour, contact networks, and the optimal location of facilities.

27.826 Urban and Regional Development§  
Prerequisite: 27.812.
Processes of change in the distribution of settlement and economic activity at the regional and metropolitan scales, with special attention to urban and regional development in Australia. Topics include regional balance and polarization, industrial concentration and linkages.

§Subject to availability of staff

*In special circumstances the Head of School may give special permission for 27.801 to be taken as a co-prerequisite for this subject.
dispersal and relocation of manufacturing and services, growth centres and regional multipliers; changes in the inner city and the urban fringe; problems of resource allocation and equity, and regional policies and strategies for urban and regional development; approaches to urban and regional analysis and definition of regional indicators.

27.860 Landform Studies  
Prerequisite: 27.811.

The study of landforms, with particular reference to Australian examples. Geomorphic regions, Plantation surfaces and processes and associated weathering features. The evolutionary and dynamic approaches to landforms, with particular reference to fluvial landforms. Coastal processes and forms. Desert landforms. Landforms as evidence of climatic change.

27.862 Australian Environment and Natural Resources  
Prerequisite: 27.811 or 27.812.

Continental and regional patterns of land, water and energy resources in Australia and its territorial waters, and natural factors affecting their development, including climate, soils and terrain; problems of limited surface and underground water resources and of conflicting demands, exemplified through particular basin studies; comparable reviews of energy, minerals and forest resources, human resources and development.

27.863 Ecosystems and Man  
Prerequisite: 27.811 or 27.812.

Soils as an expression of endogenic and external factors and of physical and biological controls, and as a bridge between the physical environment and man's use of the land. Materials and properties of soils. Soils in the ecosystem; interrelationships between soil and climatic, biotic and geomorphic features of the environment. Constraints imposed by soil properties on land use, in both rural and urban settings. Man's effect on the soil, and its consequences, eg, soil pollution, disturbance of soil-moisture and nutrient cycles, soil depletion and erosion. These themes are co-ordinated in the study of regional examples in Australia and South-East Asia. There are laboratory workshops, field excursions and group projects.

27.870 Landform Studies (Advanced)  
Prerequisites: Graded passes in 27.811, 27.813.

As for 27.860 Landform Studies, with additional and more advanced work, including selected studies of geomorphic processes and of man's influence on those processes.

27.872 Australian Environment and Natural Resources (Advanced)  
Prerequisites: Graded passes in 27.811, or 27.812.

As for 27.862 Australian Environment and Land Resources plus further study based on additional seminars and readings. Additional topics include 1. environmental bases for reserving land and water resources for forestry, water supply, wildlife protection, and recreation; 2. conflicting demands in regional resource development.

27.880 Advanced Geographic Methods  
Prerequisites: Graded passes in 27.811 or 27.812 and 27.813.

Additional quantitative research techniques normally taken by Honours students in their third year. Research organization, computing including Fortran, collection and organization of data; statistical description, hypothesis testing and sampling; simple and multiple association analysis, nonparametric methods.

School of Health Administration

Undergraduate Study

16.011 Health Service Agency Management

The objectives, structure, function, staffing, technology of the major departments of health care institutions, with particular reference to general hospitals, psychiatric institutions and extended care facilities. Inter departmental relationships and dependencies, the development of departmental policies and departmental evaluation.

16.021 Management I

Introduction to the development of management theory; organizations and the environment; general systems theory; structure of organizations; managerial functions; individuals and groups; power, leadership and motivation; communication and conflict; work-flow and information systems; objectives and control systems; selection, induction, training and appraisal of staff; organizational competence and development.

16.022 Management II

Analysis of the means and effects of environmental interaction on the hospital's objectives, structure, work-flow and climate; management structure of the hospital including traditional hierarchical and matrix patterns; technology, tasks, roles, communication and conflict; work-flow, information systems, operations research and control; selection, induction, training and appraisal of staff; organizational competence and development in hospitals.
16.101 Comparative Health Care Systems
A comparative study of American, English and other selected health services in relation to: public health services; personal health services; hospital services; comparing the roles of government and private enterprise; health manpower; financing; legislation; regionalization; organizational developments.

16.111 Health Care Systems
Concepts and principles of health service systems; organizational structures; health service legislation; finance; preventive, ambulatory care and community health services; personal; institutional care; formulation of health policy.

16.112 Health and Health Care
Basic concepts of personal and community health; concept of normality, taxonomy and descriptive outline of physical and psychiatric disorders; epidemiology of disease; morbidity and mortality; health status change; personal health care; preventive and therapeutic trends.

16.201 Law I

16.202 Law II
The Australian tort system; the concept of foreseeability; competing theories of damages apportionment. The problems of informed consent and the tort of trespass to the person. Confidentiality and privilege in the doctor-patient relationship; examination of minors' capacity to consent to treatment. The concept of medical negligence. The law in all Australian jurisdictions relating to illegal operation and sterilisation operations. The theory and practice of vicarious liability; the control test and the organizational test. The liabilities of the hospital as an occupier of premises, the various duties to persons entering thereupon. A short course on industrial law and the access of health services organizations to the various industrial tribunals. The legal status of trade unions. The law and psychiatry, the McNaghten Rules and the defence of automatism.

16.301 Political Science
The study of politics, with special reference to Australian political institutions and practices. Topics include: concepts and theories of politics; Australian political institutions and the party system; The constitution and intergovernmental financial and legal relations; public administration with special reference to the Commonwealth and New South Wales public services.

16.302 Social Administration
An overview of the pattern of development affecting social welfare policy in Australia. The circumstances of settlement and its influences, including immigration; education; trade unions; development of social services; the welfare state. Contemporary issues in social welfare including universal and selective services; poverty; community development; social planning; policy; evaluation, democratic control of welfare policy; modes of service delivery.

16.303 Research and Evaluation Methods
Introduction to the need for and problems relating to health services research and evaluation; identifying appropriate research areas and planning a study; research design; historical and observational research; report preparation and presentation; the survey and its analysis; the setting of priorities; evaluation concepts and methodology.

16.304 Management Skills
Processes involved in the development and application of such basic management skills as decision-making, problem-solving, communication and conflict management. Examination of the conceptual, theoretical and empirical material relating to these skills, with practical exercises in their application.

16.305 Health Economics
Builds on the introductory course 16.501 Economics (Health Administration) to develop an appreciation of the application of economics to the health services. Topics include: the nature of health and the economic model; quantitative analysis of production in hospitals; health centres and private medical practice; macro aspects of financing health services; utilization; alternative methods of containing costs and improving efficiency and effectiveness in delivery and planning health services; health workforce planning; regional models of health services; justice and equity.

16.306 Administration of Nursing Services

16.307 Special Topic in Health Administration
An occasional elective dealing with some aspect of health administration, selected according to current demand and availability of local and visiting lecturers.

16.308 Epidemiology for Health Administrators
The general purposes and content of epidemiological studies. Concepts and strategies of epidemiology. Sources, collection, collation and analysis of epidemiological data. Cross-sectional, retrospective and prospective studies. Epidemiology as an aid to the planning, operation and evaluation of health services.

16.400 Health Service Experience
In order to relate theoretical instruction to practical experience, first-year full-time students, under the supervision of a member of staff of the School, are attached to a number of health service agencies in the Sydney metropolitan area. The aim is to allow students to familiarize themselves with a health agency setting; to learn in a practical way skills and responsibilities needed in the administration of health service agencies, and the importance of interpersonal relationships. The attachment program is a compulsory part of the first year BHA course. Although students with general experience in health service agencies may be eligible for exemption with the approval of the Head of School.
Professional Studies

16.411 Health Service Planning I

16.412 Health Service Planning II

An introduction to various concepts in planning and design is followed by an exploration of the relation between resources, human needs, functions, design and the physical environment, both at national and regional levels and in the context of health service facilities and buildings. Planning procedures and building project management are studied in the context of changing roles for both public authorities and the professions. Briefing, commissioning and evaluation of new facilities are covered in detail as these aspects are likely to confront many administrators. Environmental design, safety and maintenance requirements are described both in general terms, and also in relation to nursing care facilities and other clinical departments. Project work and visits form part of the assignment program for both external and internal students.

16.501 Economics (Health Administration)

An introduction to economic analysis as applied to the conditions and problems confronting Australia, with special reference to the economic aspects of health and medical care. Topics include: the elementary model of how resources are allocated by the price system in Australia, the macro model and economic policy problems of unemployment, inflation, growth and trade, distribution of the economy; the public sector; health and welfare economics; efficient production and distribution of health services, demand and the utilization of services; finance and efficiency, cost benefit analysis and selected policy issues.

16.601 Behavioural Science I

Basic concepts of sociology and psychology. The emphasis is on an understanding of social processes and how society and the individual interact and affect one another. A section of the course deals with the development of students' skills in communication. The course is directed towards demonstrating that the various sciences dealing with human behaviour are inter-related, and therefore all topics are seen from a multidisciplinary point of view.

16.602 Behavioural Science II

One branch of behavioural science, namely the sociology of health. Students consider the social role of medicine in our society, the nature of patient-healer relationships, the hospital as a social system, the processes of becoming a patient, illness as a social role, aspects of social class and status as they affect relationships in the health care system, social consequences of medical diagnosis and labelling, medical politics, and the place in society and in the health system of such special groups as the physically and mentally handicapped, the aged. Students also examine the implications of behavioural science for management situations.

16.711 Quantitative Methods I

Sources of statistical data; errors and pitfalls in the use of statistics. Measures of central tendency, dispersion and skewness. Elementary treatment of probability; introduction to statistical inference; estimation and hypothesis testing; elements of sampling and sample survey design. Correlation and regression. Index numbers. Time series analysis. Introduction to demography and vital statistics; hospital and health services, demand and the utilization of services; finance and efficiency, cost benefit analysis and selected policy issues.

16.712 Quantitative Methods II

Operations research methodology and techniques as applied to health services. Typical competition, queuing, inventory, allocation, search and scheduling problems encountered in health care administration. Solution of problems using techniques such as game theory, simulation, linear programming and PERT. Location theory including gravity models. Problems in implementation of operations research studies.

Graduate Study

16.901G Health Services Statistics I

Statistical methods and theory: frequency distributions and their description; an introduction to probability; principles of sampling; estimation and hypothesis testing; statistical decision theory; normal, Poisson and binomial distributions; linear regression; index numbers; time series analysis. Data drawn from the health planning field are used to illustrate these methods.

16.902G Health Services Statistics II

The application of statistical methods to health planning and administration problems and other problems of direct relevance to the health care field. Vital statistics and demography (measures of fertility and mortality, construction and use of life tables); hospital and health statistics; PAS/MAP and other hospital information systems.

16.904G Australian Health Care System

The historical, demographic and epidemiological background to the provision of health care in Australia. The role of the Australian and State governments, regional organizations and other instrumentalities in the provision of health and hospital services. Health services as one subsystem of a personal services sector, linkages with other sub-systems, eg Education, Social Welfare. Financial and economic aspects of the provision of health care. Problems currently besetting the Australian health care system.

16.905G Health Services Accounting

Basic theory and concept in relation to hospital and health services accounting. The inter-relationships between statistics and accounting, the nature and use of cost data, budget preparation, co-ordination and integration of budgets, accounting for planning and control; cost finding procedures.

16.909G Community Health Planning

Factors determining the planning, provision and integration of community health care: environmental health services, provision for the aged, the physically handicapped and the mentally handicapped; occupational hygiene programs; preventive and screening services, health education. The planning of health centres and their relation to other community health services. The impact of regionalization on community based services. The evaluation of community health programs.
16.930G Introduction to Health Planning

The major concepts of health planning, including policy environment; methods; implementation and evaluation of the planning process and of plans. Topics include: planning structures and organization for planning; determination of goals and objectives; problem identification and analysis; collection, interpretation and assessment of evidence; influences of the spatial and social environment; formulation and evaluation of plans; the adoption and implementation of programs, including advocacy and public relations; program evaluation and the revision of plans.

16.931G Introduction to Organization Theory

Critical evaluation of existing organization patterns in the health care field. The major schools of management thought (e.g., classical, human relations, contingency theory) through an analysis of the work of representative writers. An analysis of leadership, change and conflict in organizations.

16.932G Introduction to Behavioural Science

Introduction to the behavioural sciences of psychology and sociology. Study of social institutions, cultures; processes of motivation, learning, development of attitudes. Introduction to gaming and simulation.

16.933G Health Services Law I

The theories of jurisprudence, with emphasis on the sociological school. Law and morality, the Hart-Devlin debate. Statutory interpretation, the judicial approaches, constitutional interpretation. The nature of federation; the exclusive and concurrent powers of the Australian Parliament. Section 51, paragraph XXVII of the Constitution; Federal and State financial relations. Section 96 of the Constitution; The law of contract; employers' liability and workers' compensation: the tort of negligent advice.

16.934G Health Services Law II

The law of tort and the foreseeability test. Alternate schemes of compensation and the 'no-fault' concept. The law relating to medical negligence, consents and illegal operations. The liability of occupiers. The law relating to mental health, the medical acts. The industrial powers of the Australian Parliament and the State legislatures; the position of hospital employees in the industrial relations field.

16.935G Health Economics I

The problems and tools of micro-economic analysis as applied to resource allocation, evaluation and planning in health services. Covers: the basic concepts and methods of economic analysis; decision making; supply and demand; pricing and non-price methods of allocation, welfare analysis, economic planning of health services, and cost-benefit analysis; economics of hospitals, health financing and insurance analysis.

16.936G Physical Planning and Design

A combination of group project work, individual assignments and general discussion. Topics include: concepts of planning; design processes and methods; national, regional and urban planning issues; local building and space planning techniques; planning for growth and change. Planning procedures for health facilities; establishing need, content and cost; evaluating options and formulating policies; investigation, decision-making and documentation methods. Information sources, services and systems. Building project management; ergonomic aspects of equipment and engineering installations; building and plant maintenance. Evaluation of buildings in use. Design of physical environment—lighting, noise control, thermal comfort, ventilation systems, infection control, weather protection, fire safety. Planning and design for particular functions: clinical care, logistics systems, management services, education and research, 'hotel' care services.

16.937G Health Services Research and Evaluation

Methods and techniques used in research and evaluative studies of the health services. Topics include: the design and administration of research projects; the preparation of research protocols; health survey methods, including data analysis and statistical computer programs; report preparation and presentation, the methodology of evaluation, structure, process and outcome measures of health system performance; integrated statistical systems for evaluative studies. Each student is expected to design a research project. The textbooks are supplemented by a selection of recent articles presenting the results of health services research studies.

16.938G Seminar in Health Policy

A discussion of contemporary health policy issues including the politics of health care. Seminar topics include: principles of policy formation and analysis; Federal-State health responsibilities; the regionalisation of health services; the role of pressure groups in the health field; ideological issues in health care finance and provision; control of the use of health services; the integration of health and welfare services; quality assurance, peer review and accreditation; the organization of personal health services—specialisation, general practice and medical education. No text books are prescribed. A reading list of recent journal articles on health policy is made available at the beginning of the session.

16.940G Medical Care Organization

Specific aspects of the organization of medical care. Topics include: the administration and review of clinical work; participation of medical staff in planning and development of facilities and services, the integration of the function of health care personnel in both the administration and delivery of services, and accreditation of hospitals and other health service institutions.

16.941G Epidemiology

Principles and methods of epidemiologic investigation of both infectious and non-infectious diseases including descriptive, analytic and experimental epidemiology. The distribution and dynamic behaviour of disease in the population; data collection; collation and analysis; consideration of screening surveys; longitudinal and case-control studies, etc. The uses of epidemiology in planning and evaluation.

16.942G Medical Sociology

The relationship between the health system and the social system. Impact of illness on the person, family, social group, industry and the community as a whole. The process of becoming a patient; cultural attitudes to illness and death. Stigmatization of certain illnesses; practitioner-patient relationships; professionals in the health field. The rights and obligations of consumers of health care; social implications of medical progress.

16.943G Interpersonal Communications in Organizations

A theoretical and practical course which aims to increase students' understanding of, and capacity to deal with, communication problems in organizations. The course teaches students to improve their own
communications skills by a series of communications exercises, role-plays, simulations and games. Students are able to chart their progress with a check-list developed for the course.

16.944G Health Economics II
Builds on the basic analysis of Health Economics I with greater emphasis on planning. Topics include: demand and utilization analysis and prediction, cost-benefit analysis and project evaluation, costs and modes of health delivery units, optimum size and location, inflation control, regional planning models and rationalization, financing systems and incentives for efficiency, alternative economics and political economy of health services.

16.945G Workforce Planning
Systems approach to workforce planning in the health services. Task analysis as a workforce planning technique, career mobility; supply of health personnel, projection of supply, wastage rates; approaches to measurement of demand for health personnel and projection of demand; changing productivity in the health sector. Workforce planning at the institutional level: demographic and mathematical models. Analysis of recent studies of the Australian health workforce. Current issues in workforce planning such as licensure and regulation, maldistribution of health personnel, role of women in the health sector.

16.946G Health Information Systems
Introduction to computers, input/output mechanisms, processing systems, issues of privacy and confidentiality, systems study and costs of computers. Use of computers in the health system. Positive patient identification, clinical decision-making systems, pathology and investigatory services systems. Administrative systems including payroll, personnel and maintenance systems. Computerization of medical records and use of computers in quality assurance programs. Total health and hospital information systems. Regional community health information systems.

16.947G Comparative Health Care Systems
A comparative study of personal, public and hospital health services in the US, USSR, Britain and selected Asian, European and Third World countries. The course discusses the respective roles of government and private enterprise, health manpower, organizational structures, financing, rationalization and legislation. Particular attention is given to the relationship between social, political philosophy and the provision of health services. Methods of determining health needs, forces which inhibit achievement of goals, results of pertinent empirical studies in the international literature, aspects of evaluation including outcome measures and innovative approaches in health delivery are examined.

16.948G Operations Research for Health Planning and Administration
Operations Research methodology and techniques as applied to health services. Model building and systems approach. Typical operations research problems such as competition, queuing, inventory, allocation, search and scheduling problems as they appear in a health services environment. Techniques associated with these problems such as game theory, simulation linear programming, PERT and CPM. Testing and sensitivity of solutions. Analysis of actual applications.

16.949G Organizational Analysis in Health Services

16.970G Health Services Management I
Examination of the environment of health services in Australia. Interfaces between health and other social services. Operation, structure and management of public sector health services. Organizational analysis of national, state and regional health service agencies with attention to their functions, roles and inter-relationships. Centralization and dispersion of power. Bureaucracy and professionalism in changing patterns of services.

16.971G Health Services Management II
Examination of major classifications of hospitals and local health service agencies. Functions, objectives and influence of contextual variables. Inter-organizational relationships with other social and personal health services. Control and accountability. Authority, influence structures and co-ordination. Roles and values. Professions, professionalism and bureaucracy in interaction. Conceptions of effectiveness, efficiency and competence. Relevance of hierarchical and matrix organizations in articulating services. Uses and limitations of organizational analysis in achieving change.

16.972G Introduction to Macro Economics (Health)
The Australian Economy as a whole, for students without previous exposure to the subject. Aggregate economic activity, national accounts, income, employment and the price level, labour, the government sector, internal economic policy problems, inflation and stability and the macro economics of health and welfare services. Basis for more intensive studies in health economics, accounting and management of health services.

16.950G Computing Techniques for Health Services Research
Introduction to programming, algorithm and data structure design, BASIC programming. Use of computing machinery, punched cards and terminals. Operating systems, command languages. Statistical and other software packages available for analysis of data including SPSS, BMD, MPOS, Hospital morbidity data collection scheme, Australian Bureau of Statistics health interview survey and other computerised data based. Application of packages to health service data and their use in the solution of health service problems.

16.990G Research Project
Candidates for the degree of Master of Health Administration by coursework are required to complete a research project.

16.992G Project
28 hours.

16.993G Project
42 hours.
School of History and Philosophy of Science

Undergraduate Study

62.001 History and Philosophy of Science I
The Origins of Modern Science S1
An introduction to the main developments in the history of science between 1300-1800 with emphasis on the seventeenth-century Scientific Revolution.

62.002 History and Philosophy of Science II*
The Principles of the Philosophy of Science S1
A general introduction to the philosophy of science. A preliminary examination of the nature of some of the common forms of argument employed in natural science and mathematics, followed by several of the more central problems of the philosophy of science, such as the structure of scientific theories; the nature of scientific explanation and prediction; the status of scientific laws; confirmation and falsification; the function of models and analogies; the status of theoretical entities; paradigms; and the dynamics of scientific development and change. Historical case studies taken from the post-Newtonian period are used to illustrate the philosophical issues.

Selected Topics in the Histories of the Sciences S2
Students choose two of the following Histories:

1. The History of Biology:
   Main themes in the development of biology as a science, with emphasis upon the nineteenth and twentieth centuries.

2. The History of Chemistry:
   The establishment of the atomic theory. The evolution of the atomic theory is traced from the time of Dalton to that of Mendeleef, with a careful examination of the steps leading to the determination of atomic weights, the writing of chemical formulae, the establishment of the valencies of the elements, and the construction of the periodic table.

3. The History of Geology:
   The history of geology in outline from antiquity to the present, with more detailed consideration of the following topics: the uniformitarian/catastrophist debate in the early-nineteenth century; the birth of glacial geology; the contribution of Kelvin and the age of the earth; the history of the hypothesis of continental drift from Wegener to the present; paradigmatic change in the first half of the twentieth century.

4. The History of Physics:
   An introduction to the main developments in the history of physics. Topics include: the conceptual evolution of physics, which finally resulted in the theories of relativity and quantum mechanics; the logical structures of these theories are examined and some famous paradoxes are discussed in order to demonstrate the incomplete nature of some orthodox interpretations of relativistic and quantum phenomena.

62.042 Science Education and the Dynamics of Scientific Development S2 L3T1
Prerequisite: 58.512 or special permission of the School of History and Philosophy of Science.

The role of science education within the economy of scientific activity and development. Topics: Education in relation to the scientific community as a whole; theories of scientific development and change, with special reference to the critique of Thomas Kuhn's 'The Structure of Scientific Revolutions'; science education in relation to the life-cycles of scientific paradigms; the structures and function of the different classes of scientific publications, with special reference to textbooks; the uses and 'misuses' of the history of science in the teaching of science; the relationships of syllabuses and teaching techniques to research methodology and the dynamics of scientific development; science education considered as a factor in the determination of scientific 'style' and philosophies of science; the effects of moral, political and other values on science and science education. The topics are discussed with special reference to suitable examples selected from the histories of science and of science education.

62.012 The Origins of Modern Science S1 L3T3
Prerequisites: As for 62.012.

Deals with the Scientific Revolution of the seventeenth century, the philosophical issues being discussed in their historical context; the major achievements of science during the period, particularly the Copernican Revolution; the construction of dynamics from Galileo to Newton, and Harvey's physiology; the cultural and intellectual background of these achievements and their effects on European thought.

62.022 The Social History of Science—From the French Revolution to the Second World War S2 L3T3
Prerequisites: As for 62.012.

The development of the scientific movement, in its social and cultural context, from the French Revolution to the 1930s; includes consideration of the different national contexts of the scientific movement; its relations with the State, with the universities and other teaching institutions, and with the professions of medicine and engineering; the communications system in science and the nature and functions of scientific societies; the effects of science on technology and of technology on science; the institutionalization and professionalization of science.
The relativists; Eddington's selective subjectivism; Bridgman and modelism; positivist reductionism; Popper and falsificationism; Hesse and instrumentalism; Meyerson and realism; Einstein and positivism; Peirce, James and pragmatism.

The development of ideas concerning the nature and methods of the scientific knowledge. The processes of research and discovery; the dissemination of research; the production and application of scientific knowledge examined as an activity in constant interaction with its socio-economic, political and cultural environments. Aims: to highlight the principal features of this many-sided topic is offered, from antiquity to the mid-twentieth century, though emphasis is largely placed on ideas in the nineteenth and twentieth centuries. Topics: Greek matter theory; the 'organic' theories of the Renaissance; the 'mechanical philosophy'; Newton, Leibniz and Boscovich; eighteenth-century chemistry; Dalton's atomic theory and the 'atomic debates'; the establishment of the atomic weight scale; nineteenth-century theories of bonding and structure; Faraday, Maxwell, Hertz, and the origins of field theory; radioactivity; Thomson and Rutherford; the Bohr theory of the atom; the wave/particle model, the uncertainty principle and associated controversies; anti-matter; electronic theories of valency.

A set of notes is distributed each week and the subject is conducted entirely by seminars.

An introduction to the political dimensions of twentieth century science. Topics: growth of expenditure on science in the twentieth century; attempts to define the social function of science in the inter-war years; the radical scientists' movement of the 1930s - the freedom versus planning debate; science and politics in the Second World War; government patronage and political expectations in the post-war period; science and economic growth; the science-technology relationship; the rejection of laissez-faire in the 1980s; approaches to science policy; critiques of the role of science in contemporary society; scientists as experts; the question of social responsibility in science.

An introduction to the social dimension of the practice of science. The production and application of scientific knowledge examined as an activity in constant interaction with its socio-economic, political and cultural environments. Aims: to highlight the principal features of this interaction in relation to each of the following aspects of scientific activity: the processes of research and discovery; the dissemination of research findings and their acceptance or rejection; the development or abandonment of accepted theories; and the technological applications of scientific knowledge.

The development of ideas concerning the nature and methods of the sciences from antiquity to the present day: Platonism and Aristotelianism; Descartes, Leibniz and Continental rationalism; Bacon, Locke, Berkeley, Hume and British empiricism; Kant and Kantians; Herschel, Whewell, Mill and the revival of inductivism; Comte, Mach and nineteenth-century positivism; Peirce, James and pragmatism; Poincare and conventionalism; Duhem and instrumentalism; Meyerson and realism; Einstein and the relativists; Eddington's selective subjectivism; Bridgman and operationalism; the Vienna Circle and logical positivism; Carnap and logical thought reductionism; Popper and falsificationism; Heisenberg and modelism; Feyerabend and methodological anarchism. A set of notes is distributed each week. The subject is conducted entirely by seminars.

The main formative influences that have shaped the science of cosmology. The work of investigators such as Kant, Laplace and Herschel on the Milky Way, which followed from the work of Galileo and Newton on motion and gravitation. The implications of the investigations of Obers, Einstein and Hubble for an expanding universe. The conceptual and observational framework of the present situation in...
cosmology, central physical-philosophical problems raised by various cosmological scenarios of the universe concerning space and time, matter and radiation; the paradigms of the evolutionary and steady-state theories of the universe and the proliferation of alternative models; the tensions between the theorists and the optical and radio-astronomical communities.

62.073 Predicate Logic and the Foundations of Mathematics

Prerequisite: 52.162 or prescribed reading preceding long vacation.
(Offered by the School of Philosophy).

Predicate Logic:
A system of natural deduction for the first order predicate calculus, including identity and definite descriptions. Emphasis is upon construction of formal derivations, methods of showing the invalidity of formal arguments, and the evaluation of informal arguments by symbolization.

Foundations of Mathematics.
An introduction to a selection of problems concerning the foundations of Mathematics, including non-Euclidean geometry and consistency proofs, axiomatics, antinomies of naive set theory, logicism, intuitionism, formalism, Godel's incompleteness result.

62.083 Marxism and Science

Prerequisites: As for 62.013.

Consists of weekly seminars and directed readings on Marxism and science. Includes: Marxist interpretations of scientific knowledge and its development, the claims of Marxism to be a science, the critique of non-Marxist philosophies of science, and the nature and function of ideology in relation to scientific knowledge.

62.093 Science and the Strategy of War and Peace

Prerequisites: As for 62.013.

Aims to give historical perspective to the impact of science and technology on the art of war from Leonardo da Vinci to contemporary problems of nuclear disarmament and the arms race. Emphasis on the intellectual challenges, social consequences and moral dilemmas posed by twentieth-century developments in propaganda, the mechanization of warfare, communications, surveillance and physical, chemical, nuclear and biological weaponry; the early history of the atomic scientists and the nuclear age; Einstein and Russell and the antinuclear movements; the role of the military-industrial complex; the dynamics of the arms race and its limitation; the technological elaboration of armaments in the 1960s; the opportunity cost of military expenditure and limits to growth.

*Not offered in 1979.

School of Librarianship

Graduate Study

55.112 Libraries and information

The role of the library in the total communication system of society, as an agency for the preservation, dissemination and development of knowledge and information. The history of libraries and their involvement in social and technological change. The provision, functions and services of various types of library with particular reference to the Australian environment. The role of the librarian in the library and in the information process; the library profession. Librarianship in relation to information science.

55.114 Communication and Record

The communication process. The development of various kinds of record to serve communication and to preserve knowledge. The development of printing and the book, and of other forms of record. The effects of recent technical innovations in transmitting and recording information. Reprography in relation to the diffusion of knowledge and to libraries. The mass media and their role in communication. The inter-relationships of the printed word, reading and mass media.

55.122 Library Materials Selection and Organization

The selection and acquisition of library materials in all physical forms. The book trade and other sources of supply. The cataloguing, classification, indexing and circulation of materials in relation to the needs of users. The role of mechanization and automation.

55.123 Reference Service and Materials

1. Information sources, especially reference books, and their uses in library processes and reader services. Using publications to provide information at various levels in different library situations. 2. The bibliography as a record of publication in the mass and as a guide to individual items. National, trade and subject bibliography. Indexes and abstracts. 3. Reference books not limited to a particular subject. Publication methods, coverage, organization of content, studied in relation to purpose and use. 4. The principles and methods of reference work. Its place in the total information network and in library service. Question analysis, search strategy and presentation of results to the user. The relationship of traditional reference methods to the design of mechanized information retrieval systems.

55.124 Library Administration

The principles of administration and their application to libraries. Setting library objectives and measuring library achievement. Tools and methods of administration. The management of library staff and library finance. Administrative implications in the provision of library services and the adoption of techniques, including electronic data processing. The authority relationships of libraries, the library in the political process.

Subject Bibliography: The Humanities; The Social Sciences; Pure and Applied Sciences; Law; Government Publications

The structure of the literature, with special reference to the information and research needs of users. Publications embodying original work, criticism, exposition, popularisation. The major reference works in the field. Important collections in libraries, and other sources of publications and information. Problems of availability of resources.

55.231 Subject Bibliography: The Humanities

55.236 Subject Bibliography: Law

55.232 Subject Bibliography: The Social Sciences
The information environment of educators. Educational issues and their effect on libraries. The development of the role of the library in the school in relation to educational thought and practice. The provision, administration and organization of school library resources and services on national, state and local levels. The roles of school and public libraries and the community library concept.
55.807G Research Methods in Librarianship
The nature, necessity and techniques of research in librarianship and contributions of information science; functions and techniques of statistical analysis; preparation of research proposals; state of the art of research in librarianship and the evaluation of research projects.

55.811G Library and Information Services Management I
Libraries in the political process. The nature of the library as a bureaucracy. The library as a system. The management of library finance. Work study and position classification in libraries.

55.812G Library and Information Services Management II

55.815G Economics of Information Systems

55.816G Information Processing Technology
The application of computer, photographic, micrographic and telecommunication technology to the solution of information problems. Transition of needs into equipment specifications. Advances in information processing technology.

55.817G Information Storage and Retrieval Systems

55.818G Issues in Information Science
Contemporary issues in information science; including the role of the information scientist as researcher and as data administrator. Technology transfer in and through information science. Task group projects designed to allow opportunities for work on information science problems.

55.819G Introduction to Telecommunications
The transfer of data to and from computers and the use of such transfers in an environment where principal interest is in the processing of bibliographic information. Some discussion of data transfer not associated with computers. Topics may include: analysis of types of computer dialogue and their associated telecommunications requirements, features of computer operation in on-line systems, introduction to data communication, transmission mode and line configurations, line control procedures, terminal equipment, errors and their control, common carrier facilities, planning for an on-line system, cost considerations.

55.820G Diffusion and Dissemination of Information
Review of studies of information needs and of the behaviour of scientists, engineers and other professional and social groups as users of information. Technology transfer and the diffusion of innovations and implications for the design of information systems.

55.821G Man-machine Communication
Includes some discussion of cognition theory and the basic psychological, physiological and technological considerations underlying the requesting, assimilating and presentation of information. The influence of these factors on dialogue with report generating, retrieval and interactive educational systems.

School of Mathematics

Undergraduate Study†
Many units in the School of Mathematics are offered at two levels. The higher level caters for students with superior mathematical ability. Where both levels are offered grades higher than Credit are only awarded in the ordinary level in exceptional circumstances.

Students should note that all of the Mathematics honours programs require them to take most of their Mathematics units at higher level. However, students should not think that the higher level units are intended only for those in honours programs. Any student with the ability to undertake higher units benefits from so doing.

Note: The half units 10.1113 (10.1213) and 10.1114 (10.1214) together replace the unit 10.111B (10.121B). The half units 10.2111 (10.2211) and 10.2112 (10.2212) together replace the unit 10.211A (10.221A). The half units 10.2213 (10.2213) and 10.2214 (10.2214) together replace the unit 10.221D (10.221D).

10.001 Mathematics I

Prerequisite: HSC Exam Percentile Range Excluded**
2 unit Mathematics or 11-100 10.011
3 unit Mathematics or 11-100 10.021A
4 unit Mathematics or 1-100 10.021B 10.021C
or 10.021B

Calculus, analysis, analytic geometry, linear algebra, an introduction to abstract algebra, elementary computing.
### 10.021A General Mathematics IA*

- **Prerequisite:** 10.011 or 10.021A
- **HSC Exam Percentile Range Required:** 71-100
- **Excluded:**
  - 10.021B
  - 10.021C

Number systems (including absolute value, inequalities, surds, etc); coordinate geometry; polynomials, quadratics; concept of the function; trigonometric functions, logarithmic and indicial functions and their laws of operation; introduction to differentiation and integration with simple applications.

*Results in the percentile range 11-30 at a standard acceptable to the Professorial Board.

### 10.021B General Mathematics IB

- **Prerequisite:** 10.011 or 10.021A
- **HSC Exam Percentile Range Required:** 31-100
- **Excluded:**
  - 10.021A

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.

### 10.032 Mathematics (one Level III unit)†

- **Prerequisite:** 10.031.
- **HSC Exam Percentile Range Required:** 11-30
- **Excluded:**
  - 10.021A
  - 10.021B
  - 10.021C

Vector Calculus: special functions; convolution theorem and applications; complex variable theory; Fourier integrals; Laplace transforms with application to ordinary and partial differential equations.

### 10.041 Introduction to Applied Mathematics

- **Prerequisite:** 10.001.
- **Excluded:**
  - 10.021A
  - 10.011
  - 10.021B

Combinatorial mathematics, finite differences, games and networks, hydrostatics, mathematical models.

† When a unit is listed as a prerequisite or co-requisite, the appropriate higher unit may be substituted.

*Entry to General Mathematics IA is allowed only with the permission of the Head of the School of Mathematics, and that permission will be given only to students who do not qualify to enter General Mathematics IB.

† These units are also available to Professional Studies students as a sequence of two units constituting a terminating service course in mathematics. As such they are mutually exclusive to any other Level II or Level III units in pure and/or Applied Mathematics and/or Theoretical Mechanics.

### 10.021C General Mathematics IC

- **Prerequisite:** 10.021B, 10.001, 10.011, 10.021A
- **HSC Exam Percentile Range Required:** 1-100

### 10.021D General Mathematics ID

- **Prerequisite:**
  - 10.011 or 10.021A
  - 10.021B

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.

### 10.031 Mathematics (one Level II unit)†

- **Prerequisite:** 10.001 or 10.021C

Differential equations, use of Laplace transforms, solutions by series; partial differential equations and their solution to selected physical problems, use of Fourier series; multiple integrals, matrices and their application to theory of linear equations, eigenvalues; introduction to numerical methods.

### 10.111A Pure Mathematics II — Linear Algebra

- **Prerequisite:** 10.001.
- **Excluded:**
  - 10.121A


### 10.111B Pure Mathematics II — Group Theory

- **Prerequisite:** 10.001.
- **Excluded:**
  - 10.121A

Mathematical systems, groups, determinations of small groups, homomorphisms and normal subgroups.

### 10.111C Pure Mathematics II — Geometry

- **Prerequisite:** 10.001.
- **Excluded:**
  - 10.121C

Elementary concepts of Euclidean, affine and projective geometries.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Level</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.1113</td>
<td>Pure Mathematics II — Multivariable Calculus</td>
<td>S1 L1T1</td>
<td>Prerequisite: 10.001. Excluded: 10.1213. Multiple integrals, partial differentiation. Analysis of real valued functions of one and several variables.</td>
</tr>
<tr>
<td>10.1214</td>
<td>Higher Pure Mathematics II — Complex Analysis</td>
<td>S2 L2T½</td>
<td>Prerequisite: 10.1213. Excluded: 10.1114. As for 10.1114 but in greater depth.</td>
</tr>
<tr>
<td>10.1121</td>
<td>Pure Mathematics III — Number Theory</td>
<td>S1 or S2 L1½ T½</td>
<td>Prerequisites: ***. Excluded: 10.121C. Euclidean algorithm, congruences, sums of squares, diophantine equations.</td>
</tr>
<tr>
<td>10.1123</td>
<td>Pure Mathematics III — Set Theory</td>
<td>S1 L1½T½</td>
<td>Prerequisites: ***. Intuitive and axiomatic set theory. Cardinal and ordinal numbers. The axiom of choice.</td>
</tr>
<tr>
<td>10.121C</td>
<td>Pure Mathematics III — Combinatorial Topology</td>
<td>S1 or S2 L1½T½</td>
<td>Prerequisites: ***. Excluded: 10.122C. Elementary combinatorial topology of surfaces.</td>
</tr>
<tr>
<td>10.1125</td>
<td>Pure Mathematics III — Ordinary Differential Equations</td>
<td>S1 L1½T½</td>
<td>Prerequisites: ***. Excluded: 10.122E. Systems of ordinary differential equations; variations of constants formula; stability; Poincare space; Lyapunov's direct method.</td>
</tr>
<tr>
<td>10.1127</td>
<td>Pure Mathematics III — History of Mathematics</td>
<td>S2 L1T1</td>
<td>Prerequisites: 10.111A, 10.1113, 10.1114, 10.2111, 10.2112. Topics from the History of Mathematics, with emphasis on the development of those ideas and techniques used in undergraduate courses. Students are expected to read widely and to present written material based on their readings.</td>
</tr>
</tbody>
</table>
10.122A Higher Pure Mathematics III — Algebra

Prerequisite: 10.121A. Excluded: 10.122. Field theory and theory of rings and modules.

10.122B Higher Pure Mathematics III — Integration and Functional Analysis

Prerequisite: 10.121C. Excluded: 10.1128, 10.1129.

Lebesgue Integration; Fourier series; normed vector spaces; Hilbert spaces; measures theory.

10.122C Higher Pure Mathematics III — Topology and Differential Geometry

Prerequisites: 10.121A, 10.121C. Excluded: 10.1124, 10.112C.

The axiom of choice, metric and topological spaces, compactness. Compact surfaces, triangulations, geodesics, Gauss-Bonnet theorem.

10.122E Higher Pure Mathematics III — Complex Analysis and Differential Equations

Prerequisites: 10.121A, 10.121D. Excluded: 10.1125.

Analytic continuation; entire and meromorphic functions; elliptic functions, normal families and further advanced topics in complex analysis. Existence and uniqueness theorems for ordinary differential equations; linear systems; qualitative theory of autonomous systems; equations on manifolds.

10.123 Pure Mathematics IV

An honours program consisting of the preparation of an undergraduate thesis together with advanced lecture courses on topics chosen from fields of current interest in Pure Mathematics. With the permission of the Head of Department, the subject may also include advanced lecture courses given by other Departments or Schools.

Applied Mathematics

10.2111 Applied Mathematics II — Vector Calculus

Prerequisite: 10.001 or 10.001 (Dist). Excluded: 10.2111. As for 10.2111 but in greater depth.

Vector fields; divergence, gradient, curl of a vector; line, surface, and volume integrals. Gauss' and Stokes' theorems. Curvilinear coordinates.

10.2112 Applied Mathematics II — Mathematical Methods for Differential Equations

Prerequisite: 10.001. Excluded: 10.2212, 4.813.


10.2113 Applied Mathematics II — Introduction to Linear Programming

Prerequisite: 10.001. Excluded: 10.2213.


10.2114 Applied Mathematics II — Linear and Non-Linear Optimization Techniques

Prerequisite: 10.2113. Excluded: 10.2214.

Linear Programming: the dual simplex method, post optimal analysis, integer linear programming. Applications of linear programming, including diet, allocation and transport problems. Brief introduction to non-linear programming. Simple numerical methods.

10.2211 Higher Applied Mathematics II — Vector Analysis

Prerequisite: 10.011 or 10.001 (Dist). Excluded: 10.2111.

As for 10.2111 but in greater depth.

10.2212 Higher Applied Mathematics II — Mathematical Methods for Differential Equations

Prerequisite: 10.2211. Excluded: 10.2112.

As for 10.2112 but in greater depth.

10.2213 Higher Applied Mathematics II — Introduction to Linear Programming

Prerequisite: 10.011 or 10.001 (Dist). Excluded: 10.2113.

### Subject Descriptions

#### 10.2214 Higher Applied Mathematics II
**Linear and Non Linear Optimization Techniques**  
S2 L1\(\frac{1}{2}\)T\(\frac{1}{2}\)

**Prerequisites:** 10.2213. Excluded: 10.2114.

Linear programming; reduction of linear inequalities, integer linear programming. Applications of linear programming including diet, allocation and transport problems. Linear programming in economic analysis, including the theory of the firm and general equilibrium theory. Brief introduction to non-linear programming. Simple numerical methods.

#### 10.212A Applied Mathematics III — Numerical Analysis
F L1T1

**Prerequisites:** 10.2111, 10.2112, 10.111 A. Excluded: 10.222k.


#### 10.212L Applied Mathematics III — Optimization Methods
F L1\(\frac{1}{2}\)T\(\frac{1}{2}\)

**Prerequisite:** 10.113***. Excluded: 10.222L.

Unconstrained multivariable search procedures: including steepest descent, D-F-P method, Hooke and Jeeves method. Constrained optimization: including convexity, Lagrange multipliers, Kuhn-Tucker conditions, duality, simple constrained search methods, penalty functions. Special methods: including geometric programming, separable programming, branch and bound. Applications of these methods to resource allocation, production problems, capital investment and economic models.

***At least 1 further unit chosen from the following: 10.111A, 10.1114, 10.2111, 10.2112, 10.2113.

#### 10.212M Applied Mathematics III — Optimal Control Theory
F L1\(\frac{1}{2}\)T\(\frac{1}{2}\)

**Prerequisites:** 10.1113 and 10.1114, 10.111A or 10.2113. Excluded: 10.222M.

Optimal control of systems described by difference equations, continuous-time dynamic programming, calculus of variations, Pontryagin maximum principle, stochastic decision processes. Applications of control theory to resource allocation, control of production, investment, inventory, and advertising, and to models of the economy.

#### 10.222A Higher Applied Mathematics III — Numerical Analysis
F L1T1

**Prerequisites:** 10.2211 or 10.2111 (Dist)**, 10.2212 or 10.2112 (Dist)**, 10.121A or 10.111A (Dist)**, Excluded: 10.212A.

As for 10.212A but in greater depth.

#### 10.222C Higher Applied Mathematics III — Maxwell’s Equations and Special Relativity
F L1\(\frac{1}{2}\)T\(\frac{1}{2}\)

**Prerequisites:** 10.2211 or 10.2111 (Dist)**, 10.2212 or 10.2112 (Dist)**, 10.1213 or 10.1113 (Dist)**, 10.1214 or 10.1114 (Dist)**, 100. Excluded: 1.033.


#### 10.222F Higher Applied Mathematics III — Quantum Mechanics
F L1\(\frac{1}{2}\)T\(\frac{1}{2}\)

**Prerequisites:** 10.2211 or 10.2111 (Dist)**, 10.2212 or 10.2112 (Dist)**, 10.121A or 10.111A (Dist)**, 10.1213 or 10.1113 (Dist)**, 10.1214 or 10.1114 (Dist)**. Excluded: 10.013.


#### 10.222L Higher Applied Mathematics III — Optimization Methods
F L1\(\frac{1}{2}\)T\(\frac{1}{2}\)

**Prerequisites:** 10.1213 or 10.1113 (Dist)**. Excluded: 10.212L.

As for 10.212L but in greater depth.

#### 10.222M Higher Applied Mathematics III — Optimal Control Theory
F L1\(\frac{1}{2}\)T\(\frac{1}{2}\)

**Prerequisites:** 10.1213 or 10.1113 (Dist)**, 10.1214 or 10.1114 (Dist)**, 10.121A or 10.111A (Dist)**, or 10.2213 or 10.2113 (Dist)**. Excluded: 10.212M.

As for 10.212M but in greater depth.

***With the permission of the Head of the Department a sufficiently good grade may be substituted.

At least 1 further unit chosen from the following: 10.121A or 10.111A Dist, 10.1214 or 10.1114 Dist, 10.2111 or 10.2112 Dist, 10.2212 or 10.2113 Dist, 10.2213 or 10.2113 Dist, 10.2214 or 10.2114 Dist.

#### 10.223 Applied Mathematics IV

An honours program consisting of the preparation of an undergraduate thesis together with advanced lecture courses. Lecture topics include selections from advanced optimization and control theory, functional analysis and applications, numerical analysis, mathematics of economic models and of economic prediction, stability theory of differential and differential-difference equations, stochastic processes, statistical mechanics, quantum physics, astrophysics. With permission of the Head of Department, the subject may also include advanced lecture courses given by other Departments or Schools.

### Statistics

#### 10.311A Theory of Statistics II — Probability and Random Variables
S1 L4T3

**Prerequisite:** 10.001 or 10.021C (Cr) Excluded: 10.321A, 10.301, 10.391, 45.101.

10.311B Theory of Statistics II — Basic Inference S2 L4T3
Prerequisite: 10.311A. Excluded: 10.321B, 10.301, 10.331, 45.101.
Point estimation (moments, maximum likelihood, minimum $x_2$, etc). Confidence interval estimation, exact and approximate. Elementary Neyman-Pearson theory of tests of significance. Standard significance tests. Regression (including curvilinear) on a single fixed variable.

10.321A Higher Theory of Statistics II — Probability and Random Variables S1 L5T3
Prerequisite: 10.001. Excluded: 10.311A, 10.301, 10.331, 45.101.
10.311A at greater depth and covering a slightly wider field.

10.321B Higher Theory of Statistics II — Basic Inference S2 L5T3
Prerequisite: 10.321A. Excluded: 10.311B, 10.301, 10.331, 45.101.
10.311B at greater depth and covering a slightly wider field.

10.312A Theory of Statistics III — Probability and Stochastic Processes S1 L2T2
Prerequisites: 10.311A, 10.111A, 10.1113, 10.2112. Excluded: 10.322A.

10.312B Theory of Statistics III — Experimental Design (Applications) and Sampling S2 L2T2
Prerequisite: 10.311B or 10.331 (normally Cr). Excluded: 10.322B.

10.312C Theory of Statistics III — Experimental Design (Theory) S1 L2T2

10.312D Theory of Statistics III — Probability Theory S2 L2T2
Prerequisites: 10.311A, 10.111A, 10.1113, 10.2112. Excluded: 10.322D.

10.312E Theory of Statistics III — Statistical Inference S2 L2T2
Prerequisites: 10.311B, 10.111A, 10.1113, 10.2112. Co-requisites: Any two Level III Pure Mathematics or Applied Mathematics or Theoretical Mechanics units. Excluded: 10.322E.

10.322A Higher Theory of Statistics III — Probability and Stochastic Processes S1 L2T2
Prerequisites: 10.321A, 10.111A, 10.1113, 10.1114, 10.2112. Excluded: 10.312A.
As for 10.321A but in greater depth.

10.322B Higher Theory of Statistics III — Experimental Design (Applications) and Sampling S2 L2T2
Prerequisites: 10.321B, 10.111A, 10.1113, 10.1114, 10.2112. Excluded: 10.312B.
As for 10.321B but in greater depth.

10.322C Higher Theory of Statistics III — Experimental Design (Theory) S1 L2T2
As for 10.321C but in greater depth.

10.322D Higher Theory of Statistics III — Probability Theory S2 L2T2
Prerequisites: 10.321A, 10.111A, 10.1113, 10.1114, 10.2112. Excluded: 10.312D.
As for 10.321D but in greater depth.

10.322E Higher Theory of Statistics III — Statistical Inference S2 L2T2

10.323 Theory of Statistics IV
10.301 Statistics SA  

Probability, random variables, independence, binomial, Poisson and normal distributions, transformations to normality, estimation of mean and variance, confidence intervals, tests of hypotheses, contingency tables, two sample tests of location, simple and multiple linear regression, analysis of variance for simple models.

10.331 Statistics SS  


Theoretical and Applied Mechanics

10.411A Theoretical Mechanics II—Hydrodynamics  

Conservation laws and Bernoulli's equation for one-dimensional flow. Equations of continuity and Euler's equation. Kelvin's Theorem. Incompressible, irrotational flow in two and three dimensions, including applications of complex variables, method of images, harmonic functions, and axially symmetric flow. Introduction to compressible and viscous fluids.

10.411B Theoretical Mechanics II—Principles of Theoretical Mechanics  
Prerequisites: 10.001, 10.001 or 10.041 or 5.010. Co-requisites: 10.4111, 10.2112, 10.1113, 10.1114. Excluded: 10.421B.

Revision of vectors, kinematics of particles and rigid bodies. Dynamics of particles including simple harmonic and projectile motion. Systems of particles: conservation principles, collisions, rocket motion, the catenary, Work and energy. Rotating frames; moments of inertia. Elementary problems derived from continuum mechanics including conservation laws, one-dimensional fluid flow, extension and bending of beams.

10.421A Higher Theoretical Mechanics II—Hydrodynamics  
Prerequisite: 10.011 or 10.001 (Dist)**. Co-requisite: 10.412B, 10.1114. Excluded: 10.411A.

As for 10.411A but in greater depth.

10.421B Higher Theoretical Mechanics II—Principles of Theoretical Mechanics  
Prerequisites: 10.011 or 10.001 (Dist)**. 10.01 or 5.010 or 10.041. Co-requisites: 10.2211, 10.2212, 10.1113 Excluded: 10.411B.

As for 10.411B but in greater depth.

10.421A Theoretical Mechanics III—Dynamical and Physical Oceanography  
Prerequisites: 10.2111 and 10.2112 or 10.031, 1.001. It is recommended that one of the following be taken concurrently: 10.411A or 10.12 or 1.913.

The physical properties of the oceans and their measurement, including salinity, temperature, density, dynamic heights, currents, waves and tides. Theoretical models of current and waves. Up to seven days of field/laboratory work per year.

**With the permission of the Head of the Department a sufficiently good grade may be substituted.

10.412B Theoretical Mechanics III—Continuum Mechanics  
Prerequisites: 10.2111, 10.2112, 10.1114, 10.1114, 10.1113. Co-requisites: 10.411A or 10.12 or 1.913 Excluded: 10.422B.

Cartesian tensors, stress and strain in continuous media, Equations of equilibrium and motion. Equations of elasticity, Bending and torsion of beams, Plane elasticity (if time available), Viscous flow of liquids (if time available).

10.422A Higher Theoretical Mechanics III—Fluid Dynamics  
Prerequisite: 10.421A or 10.411A (Dist)**. Co-requisite: 10.422B.

Compressible flow, viscous flow, boundary layers, hydrodynamic stability, simple wave motions in fluids.

Prerequisites: 10.111A, 10.1113, 10.1114, 10.2111, 10.2112, 10.412B or 10.411B (Dist)** or 1.012. Excluded: 10.412B.

As for 10.412B but in greater depth.
10.422B Theoretical Mechanics III — Mathematical Methods

Prerequisites: 10.2211 or 10.2111 (Dist)**, 10.2212 or 10.2112 (Dist)**, 10.1213 or 10.1113 (Dist)**, 10.1214 or 10.1114 (Dist)**. Excluded: 10.412D.


10.423 Theoretical Mechanics IV

An honours program consisting of the preparation of an undergraduate thesis together with advanced lecture courses on topics chosen from fluid mechanics, solid mechanics, planetary science and special mathematical and numerical techniques applied to partial differential equations. With the permission of the Head of Department, the subject may also include advanced lecture courses given by other Departments on topics such as optimal control theory, optimization theory, thermodynamics, numerical analysis or statistics.

Introduction to Engineering Design. Engineering method, problem identification, creative thinking, mathematical modeling, computer aided design, materials and processes, communication of ideas, the place of engineering in society.

Introduction to Materials Science: The structure and properties of the main types of engineering materials, with emphasis on the way in which properties may be controlled by controlling structure.

5.020 Engineering B

Co-requisite: 5.010.


5.030 Engineering C

Introduction to Engineering Design. Engineering method, problem identification, creative thinking, mathematical modeling, computer aided design, materials and processes, communication of ideas, the place of engineering in society.

School of Mechanical and Industrial Engineering

Undergraduate Study

5.010 Engineering A

Prerequisite: HSC Exam
Percentile Range Required

Either
2 unit Science (incl. Physics) 31-100
or
4 unit Science (incl. Physics) 11-100
or
2 unit Industrial Arts 31-100
or
3 unit Industrial Arts 11-100

Students who wish to enrol in this subject can make up for the lack of the prerequisite by work taken in Physics in the first half of first year.


1. (Mechanical, Industrial and Aeronautical Engineering and Naval Architecture students must take this option) Design for Manufacture I: Approximately 30 hours of workshop training, including casting, forging, machining, welding. Principles of design for manufacture.

2. Production Technology: Description and appraisal of the processes classified as: forming from liquid or solid, material removal, material joining. Machines, Analysis of the primary functions of the machine tools and an appraisal of their limitations. Principles of operation of common machine tools and illustrations of their use.

3. Introduction to systems and Computers: Introduction to computers to follow the computer work in Mathematics I. To develop a familiarity with the use of procedure-oriented languages; and C an introduction to computing equipment.

4. (Chemical Engineering students must take this option) Introduction to Chemical Engineering: Routes to and end uses of industrial chemicals. Likely new industrial chemicals. A survey of several Australian chemical industries from the point of view of their historical and economic importance. Examination of the unit operations involved in the industry and the raw materials, equipment and services used. Environmental aspects of the chemical industry.

5. (Metallurgy students must take this option) Introduction to Metallurgical Engineering: History and significance of the exploitation of metals. Ores, mineral economics, mineral processing, and metal extraction and processing methods illustrated by reference to the
Australian mineral and metal industries. Properties, uses and applications of metallic materials. The role of the metallurgist in industry and in processing and materials research, and in relation to conservation and the environment.


7. (Electrical Engineering students must take this option) Introduction to Computing. Introduction to computer program design with emphasis on the design of correct, reliable programs. The subject is organized on a tutorial basis and a number of simple fundamental programming tasks are illustrated. Programs are written in a high-level language which provides facilities for the specification of algorithms and data structure.


9. (Ceramic Engineering students must take this option) Introduction to Ceramic Engineering. The nature of ceramics. Classification of materials. The materials science approach. History of ceramics. The ceramic engineer and society. The origin, classification, physical properties and uses for clay minerals and other non-clay raw materials. Principal unit operations used in the ceramic industry. Drying and lamination of ceramics, melt forming, pot forming and other forming procedures.

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**School of Metallurgy**

**Undergraduate Study**

**4.911 Materials Science**


**4.951 Materials Technology**


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**School of Microbiology**

**Undergraduate Study**

**44.101 Introductory Microbiology**

Prerequisites: 17.011, 17.021.

The general nature, occurrence and importance of microorganisms. A systematic review of the major groups of microorganisms: the eucaryotic prokaryote (micro-algae, protozoa and fungi); prokaryote prokaryote (blue-green algae, higher bacteria; typical unicellular bacteria and small bacteria-like forms); plant, animal and bacterial viruses. The relationship between microorganisms and their environment: ecological considerations, interactions between microorganisms and higher organisms.

**44.111 Microbiology**

This unit is not acceptable as a prerequisite for Level III Microbiology units except on the recommendation of the Head of School. A short introduction to microbiology which is designed to familiarise students, without previous biological training, with microorganisms and with the methods used in their isolation and identification. The content is similar to that of 44.101.

**44.121 Microbial Growth**

Prerequisites: 44.101 and 41.101 or 2.003J.


**44.102 General Microbiology**

Prerequisites: 44.101, 44.121, 41.101 or 41.101A & 41.101B.

Double unit. Level III.

Systems for the isolation identification and taxonomic description of microorganisms: fine structure, cytochemistry, genetics of bacteria and viruses; metabolic requirements of microorganisms: microorganisms: and their environment: energy-yielding and biosynthesizing systems: genotypic and phenotypic control systems.

**44.112 Applied Microbiology**

Prerequisite: 44.102.

Double unit. Level III.

Relates the basic facts about microorganisms to a variety of practical conditions. The occurrence, importance, activity and control of microorganisms in soil, air, water and in their relationship with higher organisms (other than man); the industrial applications including manufacture, preservation and spoilage of food and dairy products. The nature of bacterial and fungal diseases of man, their cultural and serological diagnosis, epidemiology, treatment and prevention will be discussed in some detail.
44.122  Immunology  S2 L2T4
Prerequisites: 17.011, 17.021, 41.101 or 41.101A & 41.101B.
Single unit, Level III.
Basic immunology and immunological techniques. The interdisciplinary nature of the subject makes this unit suitable for students taking any major sequence in biological science and also for higher degree students who require a background training in immunology. Includes: phylogeny and ontogeny of the immune response; antigen and antibody structure; antigen-antibody reaction; immunochemistry; immunogenetics, clinical immunology, transplantation.

44.132  Virology  S2 L2T4
Prerequisite: 44.102.
The structure, replication and behaviour of animal, plant and bacterial viruses; applications of virological techniques; virus diseases of animals and plants, their epidemiology and control.

44.513  General Microbiology
Microbial taxonomy, structure and function, physiology, ecology and genetics.

44.523  Applied Microbiology
Selected aspects of industrial microbiology including fermentation processes, food production and food spoilage, soil microbiology; pathogenesis of microorganisms and host resistance; diagnostic medical microbiology; chemotherapy, disinfection and sterilization.

44.533  Immunology
Phylogeny and ontogeny of the immune response, non-specific and specific immune mechanisms; hypersensitivity reactions; immunochemistry; diagnostic serology, immunoprophylaxis and therapy.

44.543  Virology
A detailed study of virus-host interactions based on examples of bacterial and animal viruses; virus genetics; epidemiology of virus diseases; diagnostic virology.

44.553  Electron Microscopy
The principles and practice of electron microscopic techniques.

44.563  Microbiology Project I
A supervised laboratory project of 150 hours' duration. Provides experience in a wide range of microbiological and immunological techniques and introduces students to the general principles of research methodology, particularly at an applied level.

44.573  Microbiology Project II
A supervised laboratory project of 300 hours' duration. While considerable emphasis is given to acquiring technical competence in microbiological or immunological techniques, the projects in this unit provide greater scope for training in research methodology.

44.583  Microbiology Project III
A supervised laboratory project of 500 hours' minimum duration. These projects provide training in research in fundamental aspects of microbiology or immunology, with special emphasis on the development and use of specialized techniques relevant to the particular field of study.

Department of Organizational Behaviour

Graduate Study

30.935G  Organization Behaviour A  S1 L3
The individual and social factors affecting behaviour in organizations. The broad interdependent social forces shaping contemporary Australian society, and, after society, the individual. The nature of human potential; personality dynamics and motivation; Social trends and discontinuities; changing values and ideologies; theories of personality and socialization; identity, self-esteem and the formation of personality; processes of learning and unlearning; perception and emotion; motivation; personality assessment; aptitude, creativity, job satisfaction and job effectiveness.

30.936G  Organization Behaviour B  S2 L3
Prerequisite: 30.935G.
Organizations as human systems. Systematic theories of organization; the nature and development of interpersonal processes and skills; psychological processes in communication and their application to communication in organizations; role behaviour in organizations; small group theory and its application to work groups; stress, conflict and change in organizations; employee, management, and organization development.

30.941G  Sociology of the Workforce  S1 L3
Prerequisite (Commerce): 30.935G or 15.525G or 15.575G. Co-requisite (other Faculties): 30.935G.
The changing nature and structure of employment and unemployment in advanced industrial and post-industrial societies. Students may specialize in particular areas of interest within this focus: eg, complex relationship between formal, informal, experiential and recurrent education; vocational counseling; the transitions between education, employment and unemployment; visible and hidden unemployment and underemployment; the impact on employment and occupations of changing technologies, organizations, economic and industrial structures, values, ideologies, industrial relations, power relations and transnational organizations; particularly in relation to disadvantaged groups such as immigrants, women, youth, aged and shift workers, and raised expectations for quality of working life, and industrial democracy.
The nature of work and leisure; the nature of formal social roles, vocational choice, careers and retirement; status and occupational stratification; history and nature of professionalism; forms of professional practice; professional specialization; professionals in organizations; professional education and training; professional associations; economic consequences of professionalism; job development, occupational health; and manpower planning and policies.

Methods of improving interpersonal competence, including the skills of self-understanding and the observation and analysis of interpersonal behaviour; development of skills in listening; communicating, leading, counseling and consulting; class sessions emphasizing experiential learning through feedback, role play, simulation and sensitivity training.

An introduction to identifying and developing human potentialities, combining systems theory and analytic psychology, with special emphasis on innovative capability. Research methods; theories of personal development; assessment of aptitude and personality; the impact of industrial culture on the realization of human potentialities; the creative person; the individualization process; interviewing and counseling; planning integrated approaches to personal development.

The flow of information within the formal organization; systems theory; communication networks within organizations; methodology for studying communication patterns; the communication process and social roles; message exchange between individuals and between organizations. In addition to classwork, students participate in a communication analysis project within an organization.

Topic, supervisor and method of evaluation to be approved by the Head, Department of Organizational Behaviour.

Tabulated information and School recommendations are available at School of Philosophy, New Students will normally enrol in 52.103 Introductory Philosophy A (Session 1), 52.104 Introductory Philosophy B (Session 2). Each of these has 1-unit value.

Students who do not take Philosophy in Session 1 may, however, still qualify for admission to Level II work by passing 52.104 Introductory Philosophy B in Session 2.

Students in their second or later year of study may proceed immediately to Level II work after passing 52.103 Introductory Philosophy A alone.

Students may not proceed to Level II work in Philosophy in their first year of study in the Faculty. Students in later years may proceed to Level II work after passing 52.103 Introductory Philosophy A alone. In certain circumstances the prerequisites specified for units or half-units within this list may be waived, for example, in the case of students who have already studied similar material in other Schools, or who wish to take isolated units or half-units relevant to another discipline without counting them as part of a Philosophy sequence. Students who feel they have a case for a concession of this kind should consult the School.
### Level I units

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<th>Code</th>
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<td>52.103</td>
<td>Introductory Philosophy A</td>
<td>S1</td>
<td>L3T1</td>
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<td>52.104</td>
<td>Introductory Philosophy B</td>
<td>S2</td>
<td>L3T1</td>
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<tr>
<td>52.1531</td>
<td>Predicate Logic A</td>
<td>S1</td>
<td>L2T0</td>
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<td>52.1532</td>
<td>Predicate Logic B</td>
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<td>52.163</td>
<td>Descartes</td>
<td>S1</td>
<td>L2T0</td>
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<td>52.173</td>
<td>British Empiricism</td>
<td>S2</td>
<td>L2T0</td>
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<td>52.193</td>
<td>Scientific Method</td>
<td>S1</td>
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<td>52.203</td>
<td>Classical Political Philosophy</td>
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<td>52.223</td>
<td>Foundations of Mathematics</td>
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<td>52.233</td>
<td>Argument</td>
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<td>52.263</td>
<td>Philosophy of Psychology</td>
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<td>52.273</td>
<td>Aesthetics</td>
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<tr>
<td>52.283</td>
<td>Philosophical Study of Woman</td>
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### Level II units

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**Prerequisites:** Level II status in Philosophy.
52.293 Plato’s Later Dialogues
S2 L2T0

Prerequisite: 52.433 Plato’s Theory of Forms (or, by permission, a course covering similar material).

Centred round some of Plato’s later dialogues, the Theaetetus and Sophist in particular.

52.303 Spinoza and Leibniz
S2 L2T0

Prerequisite: 52.163.

The main issues raised in the philosophy of the two great seventeenth-century rationalists, with emphasis upon the development of their metaphysical systems in response to unresolved problems in the philosophy of Descartes and to contemporary scientific thinking. Their ethical views.

52.323 Set Theory
S1 L2T0

Prerequisites: 52.153 or 52.1532 or 26.812 or 10.001 or 10.011 or 10.021B and 10.021C.

An axiomatic development of Zermelo-Fraenkel set theory, including a construction of the natural numbers, equinumerosity, ordinal and cardinal numbers, the axiom of choice and some of its consequences.

52.333 Philosophy of Perception
S2 L2T0

Prerequisite: 52.163 or 51.173.

What it is that we are directly aware of when we perceive something. Emphasis on twentieth-century sense-data theories and their critics.

52.343 Privacy and Other Minds
S1 L2T0

Prerequisite: 52.163 and either 52.173 or 52.243.

An introduction to the questions of 1. whether there is anything that a person can know which it is logically impossible for anybody else to know, 2. whether it is logically possible that anybody should speak a language that cannot be understood by anybody else, and 3. how we come to understand another person’s mind.

52.353 History of Modern Logic
S1 L2T0

Prerequisite: 52.153 or 52.1532.

A historical treatment of selected topics in logic since Boole, with particular reference to Frege, Russell and Wittgenstein.

52.373 Philosophical Foundations of Marx’s Thought
S1 L2T0

Prerequisite: Level II status in Philosophy**.

A discussion of the basics of Marx’s historical materialism and dialectical materialism.

52.393 History of Traditional Logic
S2 L2T0

Prerequisite: 52.153 or 52.1532.

A historical treatment of selected topics in logic before 1850, including: the traditional theory of deduction; the rhetorical tradition; topics and fallacies; the medieval theory of terms; traditional treatments of modality; logic in India and China.

52.403 Model Theory
S2 L2T0

Prerequisite: 52.323 or 10.1123.

The metamathematics of the predicate calculus from the point of view of model theory. Topics include the deduction theorem, consistency, completeness, theories with equality, prenex normal forms, categoricity and second order theories.

52.413 Reading Option A
S1 or S2

Admission by permission, to suitable students with good passes in at least two half-units at Level II. Individually supervised reading and assignments on an approved topic not otherwise offered.

52.423 Seminar A
S2 LOT2

As for 52.423 Seminar A.

52.443 Seminar C
S2 LOT2

As for 52.423 Seminar A.

52.453 Reading Option B
S1 or S2

As for 52.413 Reading Option A.

52.463 Introduction to Transformational Grammar
S1 L2T0

Prerequisite: Any Level I unit.

Transformational grammar from the beginning; its history, goals, theory and practice. Emphasis on understanding and constructing arguments for one transformational system over another.

52.473 Meaning and Truth
S2 L2T0

Prerequisite: 52.1531 or 52.463 or 52.153.

An introductory survey of issues in philosophical and linguistic semantics; truth, meaning and presupposition in natural language; meaning as conventional; meaning and intention; compositional semantics and Tarski's definition of truth.

52.483 Plato’s Theory of Forms
S1 L2T0

Prerequisite: Level II status in Philosophy**.

(Not available to students who have taken a similar subject at Level I).

A study of some dialogues of Plato, with special attention to Socratic definition and Plato’s Theory of Forms.
52.513 Social and Political Philosophy S2 L2T0
Prerequisite: Level II status in Philosophy and 52.192 or 52.203.
Through contemporary writings, including a number of journal articles, examines such notions as justice, liability, responsibility, coercion, rights and punishment and the issues surrounding these notions.

52.523 Classical Ethical Theories S1 L2T0
Prerequisite: Level II status in Philosophy.
A survey of some central and quite influential works in the history and development of moral philosophy. Comparison of certain aspects of these moral theories, comparison of varying approaches taken by these philosophers, and the development of certain ideas through these philosophers. Most attention, however, is directed towards examining and understanding each theory in itself.

52.533 Contemporary Ethics S2 L2T0
Prerequisite: 52.523*. Not offered in 1979.
A survey of some central themes in contemporary ethical theory (beginning with G.E. Moore), focussing primarily on questions concerning the use, meanings, and logic of moral terms and concepts.

52.543 The Philosophy of Love S1 L2T0
Prerequisite: Level II status in Philosophy.
Four main topics:
1. The discussion between eros and agape. This, together with the cognate distinctions between desire and love and between lust and love, is considered with an emphasis on Plato, St Paul, St Augustine, St Thomas Aquinas, and Luther. Ovid, Lucretius and Freud are given secondary consideration in this section (Freud on genital and narcissistic love). 2. The relation between love and reason. This, together with the relation between love and will, is studied mainly in Plato, St Augustine and St Thomas. Freud is given secondary consideration. 3. Union and separation. This is studied mainly in Plato, St Augustine, Plotinus. Secondary consideration will be given to St Theresa, Hegel and McTaggart and Freud. 4. Courtly and romantic love. The attachment to the unattainable which is treated in various texts from the troubadors to the modern novel and film.

52.553 Contemporary Moral Issues S2 L2T0
Prerequisite: Level II status in Philosophy.
Investigation and discussion of a number of contemporary moral issues such as abortion, prejudice and discrimination, privacy, war and civil disobedience, punishment, and sexual morality.

52.563 Hume S1 L2T0
Prerequisite: Level II status in Philosophy. Excluded: 52.152.
A study of Hume's epistemology, his discussion of arguments for the existence of God, free will and the basis of morals.

52.573 Psychoanalysis—Freud and Lacan S2 L2T0
Prerequisite: Level II status in Philosophy.
A discussion of psychoanalytic theory, particularly for what it shows about the relations between the individual and the social.

52.583 Theories, Values and Education S1 L2T0
Prerequisite: Level II status in Philosophy.
The nature of theories of education, and the contributions to them of philosophy, psychology and sociology, values in education and the social sciences; the justification of an ordering of educational goals.

School of Physics

Undergraduate Study

Physics Level I Units

1.001 Physics I F L3T3
Prerequisites: HSC Exam Percentile Range Required
2 unit Mathematics 71-100
3 unit Mathematics 31-100
4 unit Mathematics 1-100#
of for (1.001 only)
10.021B and 10.021B
2 unit Science (incl.
Physics and/or Chem.) 31-100
4 unit Science (incl.
Physics and/or Chem.) 31-100
Co-requisites: 10.021C or 10.021 or 10.001 or 10.011.


A molecular approach to energy transfer, kinetic theory, gas laws and calorimetry. 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 interaction of radiation with matter, photoelectric effect, Compton effect, spectroscopy. Resolution of the wave particle paradox by means of wave mechanics and the uncertainty-principle.
1.011 Higher Physics I  F L3T3
Prerequisites and Co-requisites: As for 1.001 above.
For students of all Faculties except Medicine and Architecture who have a good secondary school record and who wish to do a more challenging course. As for 1.001 with additional topics: space physics, mechanical properties of real materials, rotational dynamics, physics of biological systems, AC and charged particle dynamics, physics of energy resources and conversion.

1.021 Introductory Physics I (for Health and Life Scientists)  F L3T3
An introductory subject in physics designed principally for students majoring in the life and health science disciplines. Covers the following 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 radioactivity, electronics, and

Either geometrical optics, optical instruments, wave optics, microscopes and their uses.
Or advanced electronics (Optometry students).

#Results in the percentile range 1-10 at a standard acceptable to the Professorial Board.

Physics Level II Units

1.012 Mechanics and Thermal Physics  S1 L3T2
Prerequisites: 1.001 or 1.011, 10.001. Co-requisites: 10.211.
Properties of solids and liquids, elasticity, hydrostatics, hydrodynamics, damped and forced vibrations, resonance, coupled systems, normal modes. Fourier analysis, waves, group velocity, refraction and transmission at a boundary. Kinetic theory, Maxwell velocity distribution, transport coefficients, first and second laws of thermo-dynamics, thermodynamic functions, simple applications, microscopic approach to thermodynamics, Boltzmann probability. Additional material is studied for award of Distinction/High Distinction.

1.022 Electromagnetism and Modern Physics  S2 L3T2
Prerequisites: 1.001 or 1.011, 10.001. Co-requisites: 10.211.
Electrostatics in vacuum and in dielectrics, Gauss' law, current density, magnetostatics in vacuum and in magnetic materials, electromagnetic induction, displacement current, Maxwell's equations, simple solutions, applications. Special theory of relativity, Lorentz transformation, simultaneity, relativistic mass, momentum and energy, formalism of wave mechanics, Schrodinger's equation, simple solutions, hydrogen atom, spectra, electron spin, selection rules, exclusion principle, Zeeman effects, molecules. Additional material is studied for the award of Distinction/High Distinction.

Physics Level III Units

1.032 Laboratory  F T3
Prerequisites: 1.001 or 1.011, 10.001. Excluded: 1.922.
Alternating current circuits, complex impedance, resonance, mutual inductance, introductory electronics, diode characteristics and circuits, power supplies, transistor characteristics, single stage and coupled amplifiers, experiments using AC circuits. Experimental investigations in a choice of areas including radioactivity, spectroscopy, properties of materials, Hall effect, nuclear magnetic resonance, photography, vacuum systems.

1.922 Electronics  SS L1T2
Prerequisites: 1.001 or 1.011, 10.001 or 10.011 or 10.011. Excluded: 1.032.
The application of electronics to other disciplines. Includes: principles of circuit theory and analogue computing; amplifiers, their specification and application; transducers; electronic instrumentation; industrial data acquisition.

1.932 Introduction to Solids  S2 L2T1
Prerequisites: 1.001 or 1.011 or 1.021. Excluded: 1.022.
Introductory quantum mechanics and atomic physics; crystal structure; point and line defects; introductory band theory; conductors, semiconductor and insulators; energy level diagrams.

1.942 Introduction to Physics of Measurement  S1 L1½T1½
Prerequisites: 1.001 or 1.011. Excluded: 1.323.
Resolution; accuracy and sensitivity of instruments; errors of observation; experimental design; transducers; thermometry; electrical noise; servo systems; mechanical design of apparatus; optical instruments; optical fibres; photometry; colorimetry; analogue to digital conversion and digital instruments; measurement of very large and very small quantities.
1.023 Statistical Mechanics and Solid State Physics
Prerequisites: 1.012, 1.022, 1.032. Co-requisite: 1.013 or 1.023A.

Canonical distribution, paramagnetism, Einstein solid, ideal gas, equipartition, grand canonical ensemble, chemical potential, phase equilibria. Fermi and Bose statistics, Bose condensation, blackbody radiation. Crystal structure, bonding, lattice dynamics, phonons, free-electron model of metals, band theory, point defects, dislocations. Additional material is studied for the award of Distinction/High Distinction.

1.033 Electromagnetism and Optical Physics
Prerequisites: 1.012, 1.022, 1.032. 10.2111, 10.2112. Excluded: 10.222C.

Wave equation, reflection and transmission at dielectric metallic and plasma interfaces. Fresnel equations, skin depth, wave-guides and cavities, radiation fields, dipole and long antenna. Fourier theory, diffraction from rectangular and circular apertures, interference and interferometry, coherence, image formation, resolution, holography, Fourier transform spectroscopy. Additional material is studied for the award of Distinction/High Distinction.

1.043 Experimental Physics
Prerequisites: 1.012, 1.022, 1.032.

Modern experimental techniques, methods of experimental design and analysis of results. Experiments, which in the main consist of small open-ended projects, are available in many areas of physics including electromagnetic waves, solid state physics, nuclear physics, atomic physics and spectroscopy, optical and laser physics, vacuum systems.

1.133 Electronics
Prerequisites: 1.022 or 1.032.


1.143 Biophysics
Prerequisites: 1.012, 1.022.


1.153 Biophysical Techniques
Prerequisites: 1.012, 1.022, 1.032.

The theory and application of physical techniques of relevance to the study of biological systems. Techniques considered may include optical and electron microscopy, X-ray and neutron diffraction, magnetic resonance, lasers, light scattering, calorimetry, fluorescence spectroscopy and electrophysiological methods and dielectric measurements.

1.163 Astrophysics
Prerequisite: 1.022.


1.173 Conceptual Framework of Physics
Prerequisites: 1.012, 1.022. Co-requisites: 1.013, 1.023.

Physics and metaphysics, the place of speculation in theory formation. Space and time, coordinate systems, nature of time. Fundamental physical phenomena, electrical, gravitational, inertial, nuclear phenomena, entropy and probability. Field theory, formulation, action at a distance, propagation, energy. Relativity, postulates, simultaneity, limiting speeds, mass energy. Relationship between micro and macrocosmics, statistics, entropy and information, arrow of time. Matter and anti-matter and energy, conservation laws, inertial mass, field energy. Quantum processes, granularity, measurements and uncertainty principle, determinism versus indeterminism, nuclear phenomena.

1.313 Physics of Materials
Co-requisite: 1.023.


1.323 Physics of Measurement
Prerequisite: 1.032.


1.333 Applications of Radiation
Prerequisite: 1.033.

1.513 Plasma and Laser Physics S2 L3T1
Prerequisite: 1.012, 1.022.
Experimental and theoretical problems in plasma physics. Plasma waves, magnetohydrodynamics, magnetic confinement of plasmas for nuclear fusion, laboratory, extraterrestrial and chemical plasmas. Theory of lasers, lasers of various types and properties. Interaction of high intensity lasers with plasmas; experiments and theory of plasma properties and nonlinear effects, absorption, self-focussing; laser compressed nuclear reaction plasmas, relativistic effects, pair production.

1.523 Relativity and Electromagnetism S1 L3T1
Prerequisites: 1.012, 1.022, 10.2112, 10.2111, 10.1113, 10.1114.

Physics Level IV Units
All Physics honours subjects consist of five lecture units and honours project work. Students intending to enrol in any of these honours courses must consult with the appropriate Head of Department in order to select the appropriate combination of units.

1.104 Physics IV (Honours)
Students doing this honours subject should enrol in the single subject 1.104 only. This normally comprises three units consisting of lecture material in Quantum Mechanics, Statistical Mechanics, Solid State, Atomic and Nuclear Physics as well as two projects. In addition the student selects at least two topics from Astronomy; Advanced Topics in Solid State; Lasers and Fourier Optics; Biophysics.

1.304 Applied Physics IV (Honours)
Students doing this honours subject should enrol in the single subject 1.304 only. Students take at least two units of lecture material in Quantum Mechanics, Statistical Mechanics, Solid State and Nuclear Physics as well as two projects. In addition the student selects at least two topics from Mechanical Properties of Materials; Physical Principles of Instrumentation; Applied Acoustics. It is possible to take the fifth lecture unit from any of the Physics IV subjects.

1.504 Theoretical Physics IV (Honours)
Students doing this honours subject should enrol in the single subject 1.504 only. Students take at least two units of lecture material in Quantum Mechanics, Statistical Mechanics, Solid State, Atomic and Nuclear Physics as well as one full year or two half year projects. In addition the student selects at least two topics from Waves in Continuous Media; Quantum Theory of Solids; Plasma Theory; Quantum Electrodynamics. It is possible to take the fifth lecture unit from any of the Physics IV subjects.

School of Physiology and Pharmacology

Physiology is the study of the normal functions and phenomena of living things. It covers a very wide field of study, from the physical and chemical function of single cells to the highly integrated control systems operating within the animal body. These control systems, which involve nervous, hormonal and chemical components, regulate the activities of the various cells throughout the animal. Although most aspects of physiology are included in the courses offered in this School, the main research interests of members of staff and graduate students lie in the following areas: control of blood vessels; physical properties of excitable membranes; mechanisms of synaptic and neuromuscular transmission; movement of materials across small blood vessels; gas exchange in the respiratory system; reflex mechanisms in respiratory and cardiovascular activity; proprioception; the coding of sensory information by the nervous system; studies on endocrine functions.

The field covered by physiology overlaps that of many other disciplines, and it is necessary for a student to have a sound understanding of chemistry, mathematics, biology and physics in order to gain value from any course in physiology. In addition, a good knowledge of biochemistry is necessary for the study of physiology as a major subject.

Undergraduate Study

73.111 Physiology IA
Prerequisites: 17.021; 2.121; 2.131; 10.001 or 10.011 or 10.021 B & C.
Introduction to fundamental physiological principles. 1. basic cellular function in terms of chemical and physical principles, and 2. the operation of the various specialized systems in the body, e.g. the cardiovascular system, whose function 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 gastro-intestinal 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, e.g. 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 the 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 IB
73.011 Principles of Physiology
Prerequisites: as for Physiology IA except that 2.131 may be accepted as a Co-requisite.
Cover the same general areas of physiology as Physiology IA but are somewhat less detailed and have less intensive practical courses. Physiology IB may be taken by students not intending to study physiology in Level III. Principles of Physiology is taken only by students in the Bachelor of Optometry course.
A major subject offered in Year 3, 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. Orientated towards the areas of physiology constituting the major research interests of the School and divided into several sections which may be available in special circumstances as separate 1 and 2 unit Level III subjects. These include Membrane Biology, Neurophysiology and Organ Physiology, details of which are given below.

73.012A Membrane Biology
Prerequisites: Normally as for 73.012.

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. Emphasizes modern research techniques and a critical examination of appropriate classical papers.

73.012 Neurophysiology
Prerequisites: Normally as for 73.012.

A detailed study in two broad areas: neural mechanisms in sensation and the control of posture and movement. Also covers: regulation of visceral and other autonomic effector structures and the neural substrates and correlates of certain higher functions such as speech, memory and consciousness. Experimental analysis of nervous system function aims to introduce students to the techniques and approaches used in neurophysiological research. In the section on sensation an integrated lecture and experimental course is given on somatic, visual and auditory sensory mechanisms. Laboratory work covers psycho-physical 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 the regulation of cardio-respiratory activity.

73.012C and D Organ Physiology
Prerequisites: Normally as for 73.012.

An advanced study dealing with major physiological systems of the body. The cardiovascular and respiratory systems, the endocrine systems, and the kidneys are usually studied in depth, and important aspects of gastro-intestinal and fetal physiology are also treated. Studies concentrate on the functions of the individual organs within these systems, on the operation of the systems as wholes, and on the mechanisms (including neural mechanisms) controlling the systems. Heavy emphasis is placed 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.

73.022 Pharmacology FL2T4
Prerequisites: 73.111 or 73.121. Corequisites: 73.102 or 41.102B & 41.102B or 2.003J and 2.034A.

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 through a variety of basic pharmacological techniques.

School of Psychology

Undergraduate Study

Psychology Level I Unit

12.001 Psychology I F L3T2
An introduction to the content and methods of psychology as a behavioural science, with emphasis on the biological and social bases of behaviour, relationships to the environment, and individual differences. Includes training in methods of psychological enquiry, and the use of elementary statistical procedures.

Psychology Level II Units

12.052 Basic Psychological Processes II S1 L2T2
Prerequisite: 12.001.
The basic phenomena of behaviour and experience in a biological context.

12.062 Complex Psychological Processes II S2 L2T2
Prerequisite: 12.001.
Information processing and cognitive functioning, and social bases of behaviour and personality.

12.072 Human Relations II S1 L2T2
Prerequisite: 12.001.
The personality development of the individual from birth through to death, focussing on the influences on such development from family of origin, school, peer group, work, marriage and other social groups. The theoretical contributions to an understanding of development from Freud, Piaget and Erikson.

12.082 Individual Differences II S2 L2T2
Prerequisite: 12.001. Excluded: 12.152.
Measurement and significance of individual differences in intellectual, motivational and personality functioning. Statistics cover the fundamentals of hypothesis testing.
12.152  Research Methods II  F L2T1
Prerequisite: 12.001. Excluded: 12.082.
General introduction to the design and analysis of experiments; hypothesis testing, estimation, power analysis; general treatment of simple univariate procedures; correlation and regression.

Psychology Level III Units: Group A

12.153  Research Methods IIIA  S1 L2T2
Prerequisite: 12.152.
Analysis of variance for single factor and multifactor designs. Fixed, random and mixed models. Test procedures for planned and post-hoc contrasts defined on parameters of fixed and mixed models. General principles of experimental design.

12.163  Research Methods IIIB  S2 L2T2
Prerequisites: 12.152, 12.153.
For students who intend to undertake a research thesis in Psychology IV, and is concerned with data analysis using the SPSS and PSY systems of computer programs, and with the statistical bases of these programs.

Psychology Level III Units: Group B

12.253  Learning IIIA  S1 L2T2
Prerequisites: 12.052, 12.152.
The establishment and elimination of extended sequences of behaviour in complex environments. Attention is given to implications of the theories and research for applied work.

12.373  Psychological Assessment (Testing) IIIA  S1 L2T2
Prerequisites: 12.152 and 1 other Psychology Level II Course. Excluded: 12.042.
Principles and techniques of psychological assessment. Types of tests and their application in selection and allocation procedures.

12.413  Physiological Psychology IIIA  S1 L2T2
Prerequisites: 12.052, 12.152.

12.453  Human Information Processing IIIA  S2 L2T2
Prerequisites: 12.062, 12.152.
The stages involved in the reception of stimulus information from the environment, its analysis, storage, and translation into responses. Particular emphasis will be given to the processes which have the effect of reducing the amount of information to be subsequently stored or further processed. Special attention will be given to the comprehension, storage and utilization of semantic information.

12.473  Perception IIIA  S1 L2T2
Prerequisite: 12.152.
The characteristics and processes of visual perception. Topics include the basic requirement for visual perception and the relative contributions of the observer and the stimulus in a range of visual situations.

12.503  Social Psychology IIIA  S1 L2T2
Prerequisites: 12.062, 12.152.
Interpersonal perception, verbal and non-verbal communication and human social interaction processes.

12.553  Developmental Psychology IIIA  S1 L2T2
Prerequisites: 12.052, 12.152.
An introduction to the study of cognitive development set loosely within the framework of Piagetian theory. Topics include: the development of perception with special reference to the nativism/empiricism issue; the development of operational thought with emphasis on its origins in sensorimotor intelligence; the development of language and its relationship to the development of thought; and the development of reading.

12.603  Abnormal Psychology IIIA  S1 or S2 L2T2
Prerequisites: 12.052, 12.152.
Conflict, anxiety and avoidance behaviour. Anti-social behaviour, psychosomatic disorders, brain pathology, mental deficiency, schizophrenia, depression, sexual anomalies, methods of diagnosis and treatment.

Psychology Level III Units: Group C

12.173  Psychological Issues III  S1 L2T2
Prerequisites: 12.052, 12.082.
The historical and philosophical background to contemporary research problems in psychology.

12.263  Learning IIIB  S2 L2T2
Prerequisites: 12.052, 12.152, 12.253.
Enduring issues in conditioning and learning set in their contemporary and historical contexts. Issues include conditions of reinforcement, anticipatory responding, distribution of practice, and attentional-perceptual phenomena.

12.303  Personality IIIA  S1 L2T2
Prerequisites: 2 Psychology Level II Courses.
Personality dynamics and structure. The practical work involves an exploration of student-chosen topics within designated areas of personality.

12.313  Personality IIIB  S2 L2T2
Prerequisites: 2 Psychology Level II Courses, 12.303
A restricted unit for potential Psychology IV students approved by the Head of School.
The psychology of interpersonal relationships and transactions, and the development of personality with special reference to experimental and social determinants. The practical work requires students to participate in groups.
12.323 Motivation IIIA  S1 L2T2
Prerequisites: 12.052, 12.152.
The ethology, psychology and neurophysiology of motivational states and processes, and includes thirst, hunger, attachment, and addictions.

12.383 Psychological Assessment (Psychometric Theory) IIIB  S2 L2T2
Prerequisites: 12.152 and 1 other Psychology Level II Course, 12.373.
Not offered in 1979.

12.423 Physiological Psychology IIIB  S2 L2T2
Prerequisites: 12.052, 12.152, 12.413.

12.463 Human Information Processing IIIB  S2 L2T2
Prerequisites: 12.062, 12.152, 12.453.
Not offered in 1979.

12.483 Perception IIIB  S2 L2T2
Prerequisites: 12.152, 12.473.
Man in a spatial environment. Organization and stability of the visual world with particular reference to object movement, eye movement and locomotion.

12.493 Psychophysics III  S2 L2T2
Prerequisite: 12.153.
Classical and contemporary psychophysical theories, namely theories which attempt to explain the relationship between physical and judged values of stimuli, introduces the methodology of psychophysical measurement, examines the relevance of psychophysical theories and methods to areas outside of sensory psychology where they have been traditionally developed.

12.513 Social Psychology IIIB  S2 L2T2
Prerequisites: 12.062, 12.152. Excluded: 12.523.
Research and theory in three fields of applied social psychology: organizational psychology; the social psychology of cultures in contact, including majority group — minority group relations and conflict resolution; and, the social psychology of living in cities.

12.523 Environmental Psychology III  S2 L2T2
Prerequisites: 2 Psychology Level II Courses. Excluded: 12.513.
The effects of population, technology and urbanization on social change with special reference to individual functioning and the quality of life. The measurement of social change is treated in practical exercises.

12.563 Developmental Psychology IIIB  S2 L2T2
Prerequisites: 12.062, 12.152, 12.553.
Not offered in 1979.

12.613 Abnormal Psychology IIIB  S2 L2T2
Prerequisites: 12.052, 12.152, 12.603 (may be co-requisite).
Techniques and findings of experimental psychopathology. Measurement and assessment problems relating to description and prediction in the field of abnormal behaviour. Evaluation of treatment and intervention programs.

12.623 Guidance and Counselling III  S2 L2T2
Prerequisites: 2 Psychology Level II subjects.
A review of significant therapeutic approaches from Freud to the present day, and their implied views of man. The sources of the theories of, for example, Freud, Miller and Dollard, Ellis, Rogers, Perls and Janov, concluding with the problems in evaluating the effects of psychotherapy.

12.653 Industrial Psychology III  S2 L2T2
Prerequisites: 2 Psychology Level II subjects.
The role of the psychologist in industry. Problems of power, authority and control. Theories of human nature and motivation, and their uses by industrial psychologists.

12.663 Ergonomics III  S2 L2T2
Prerequisite: 12.152.
Aspects of human performance relevant to work design. The principles involved in designing the environment in general, and work in particular, to suit man's capabilities.

12.703 Psychological Techniques III  S2 L2T2
Prerequisites: 2 Psychology Level II subjects.
An introduction to interviewing and group work. Training in the principles of interviewing and in the analysis of interview data. The group work training is experiential and is directed towards an understanding of group processes and group structure rather than individual dynamics.

12.713 Behaviour Control and Modification III  S2 L2T2
Prerequisite: 12.052.

School of Social Work

Undergraduate Study

63.123 Australian Social Organization
After an examination of the demographic characteristics of Australia, a number of major organizational areas of Australian society are studied, for example, its organization with respect to industry and commerce, government, the law, religion, and the institutions of social welfare. Extensive reading required associated with regular classroom exercises.
63.203 Human Behaviour I

The person through the age cycle: the process of 'normal' growth and development using a multi-disciplinary approach. The maturational phases of the life cycle, beginning with the pre-natal period, proceeding to birth, new-born, infancy, pre-school, childhood, adolescence, young adulthood, middle years, old age, dying and bereavement. The various frames of reference—biological, psychological and sociological—used to define and interpret the phases.

63.213 Social and Behavioural Science — Basic Theory

A consideration of a series of concepts, frameworks, models, theories in the social and behavioural sciences of particular relevance for social work practice.

62.263 Social Work Practice IA

Introduction to generic themes of social work practice as a base for further study: settings, historical developments: boundaries of practice; principles and values; qualities and attributes of a competent social worker; multicultural issues; communication theory; writing, recording, and meeting procedures; interviewing. Development of action and interaction skills related to these themes. Introduction to five unitary models of social work practice: Bartlett, Loewenberg, Compton and Galaway, Pincus and Minahan, Baker.

63.242 Social Philosophy I


63.251 Social Welfare I

Australian social welfare history. An exploration of the rise and development of Australian social welfare institutions, provisions and ideology within their historical context.

63.272 Social Work Practice IB

Under the supervision of a field instructor of the School, usually in a fairly structured social work setting, a student begins to learn to apply the principles of professional practice. Emphasis is on a range of work and learning rather than on depth of experience in particular situations. Aim is to acquire an actual practice setting, skills and responsibilities in interpersonal relations and social work interventions. The duration of this first field placement is 40 working days (280 hours).

63.303 Human Behaviour II

An interdisciplinary approach to the development of deviant behaviour at various age stages, in individuals, groups and communities—biological, psychological, and social deviance. Concepts of disease and pathology, of social problems—definition, incidence, aetiology, Differences and similarities.

63.322 Research Methods I

After a general introduction to the characteristics of scientific method, the research process, research terminology, and types of research, students concentrate on hypothesis testing, using one or more samples, and are introduced to multiple comparison procedures.

63.341 Social Philosophy II

Analysis and critical evaluation of beliefs about means and ends in a liberal democracy. Particular examination of: the state and society; power, authority, sovereignty; political obligation. Challenges and alternatives to liberal democracy. A consideration of different philosophical perspectives on rights and obligations, freedom, equality and social justice.

63.353 Social Welfare II

Social welfare arrangements in Australia are studied within a broad societal frame of reference which encompasses organized provision for citizens to achieve such common social goals as income security, employment, health, housing, education, recreation, and civil and political rights. The approach is analytic and evaluative. The perspectives of various social theories are used to develop insight into the organized arrangements, their modes of operation and underlying values, intended and unintended effects, factors affecting conservation and change. Issues involved in various policy alternatives are examined. Some comparisons are made with social welfare arrangements in other societies.

63.363 Social Work Practice IIA

An analysis of the basic social work roles of therapist, supporter, enabler, advisor, mediator, administrator, advocate, coordinator, educator, broker, caretaker, consultant, and researcher. The areas of knowledge and specific tasks and techniques inherent in the respective roles. The application in social work practice of the concepts of system, process, role, culture, task, crisis, need, power, dependence, ego, exchange, stigma and stress. A simulation program and student tasks are an integral part of the subject.

63.371 Social Work Practice III

Often as a member of a student unit located in a social work agency and supervised by an instructor of the School, the student has learning experiences, which help to develop service skills in social work practice. Emphasis is on increasing understanding of and skills in the professional role mainly in direct service situations. The duration of this second field placement is 45 days (315 hours).

63.431 Research Methods II

Various forms of experimental and survey research designs and a range of sampling techniques. Forms of data collection and the development of measuring devices. Validity and reliability concepts. Correlation analysis and prediction problems. Introduction to multivariate analysis.

63.453 Social Welfare III

Social welfare arrangements in Australia are studied within a broad societal frame of reference which encompasses organized provision for people in particular population categories. These include such categories as dependent children, aged, migrants, aborigines, physically handicapped, mentally ill, mentally retarded, rural families, legal offenders.

Each population category is studied in terms of its access to the common social goals examined in Social Welfare II. The approach is analytic and evaluative, the perspectives of various social theories being used to develop insight into the organized arrangements for the particular population category. Issues involved in various policy alternatives are examined. Some comparisons are made with social welfare arrangements for a similar population category in other societies.

Social Welfare II and III conclude with an overview of Australian social welfare arrangements, the characteristic features and implications for future developments.
63.463 Social Work Practice IIIA

Builds on an understanding of unitary social work practice gained in Social Work Practice I and II. Concentrates on the gaining of professional competence in the following social work methods: social casework, social group work, community work, and social welfare administration. Choice of one of the following major electives as a full year study, and one as a minor elective in Session 1. Each major elective in Session 2 includes evaluations of research studies relevant to the method.

Electives:

- Social Casework, Major: the development of basic skills and competence in casework interviewing, assessment, intervention and evaluation, theoretical bases underpinning contemporary casework practice, enhancing self-awareness and promoting a critical research-oriented attitude towards casework. Minor: experimental learning in small groups, improving interviewing and assessment techniques and skills through role plays, theoretical input from extensive reading list.

- Social Group Work, Major: Elements in group formation and maintenance, program activities, structuring, diagnosing and dealing with problems in group functioning; various theories/modalities of working with groups; group work with various populations and in various settings. There is equal emphasis on theoretical and experiential learning. Minor: Basic elements of group formation and maintenance; limited number of theories/modalities of working with groups eg psychotherapy, behaviour modification. More emphasis on theory but some experiential learning.

- Community Work, Major: Development of an understanding of the role of community work in the current social system; its possible forms and outcomes. Theory, issues, and skills necessary in implementing and maintaining effective community work services. Minor: Understanding the place of community work as part of the overall welfare system, emphasizing skills pertinent to work in organizations based on other methods.

- Social Welfare Administration, Major: Understanding the role of administrator; administrative theory, learning skills relevant for competent administration. Minor: Management processes in welfare organizations; understanding the role of administrator; developing skills in working within organizations.

63.473 Social Work Practice IIIB

Part 1: Under the supervision of an instructor of the School, this placement is taken in one of a wide variety of settings, some outside the metropolitan area. In the choice of placement, consideration is given to ensuring that each student has had a broad range of practice experiences covering the roles, tasks and skills delineated in Social Work Practice I and II. The duration of this placement is 40 days (280 hours).

Part 2: Often as a member of a student unit located in a social work agency and supervised by an instructor of the School, the student has further learning experience in the method of social work practice in which the student has elected to concentrate in Social Work Practice IIIB. The duration of this fourth and final placement is 45 days (315 hours).

63.483 The Social Work Profession

The professions in modern industrial societies. The professionalization of social work. The organization of the social work profession in Australia, the USA and Britain, and internationally—its educational institutions, employing agencies, and professional associations. The size, characteristics, location, objectives, and values of the profession. Current challenges and growing points of professions.
Subject Descriptions

School of Zoology

Undergraduate Study

45.101 Biometry S1 L2T4
Prerequisite: 17.011 or 17.031, 17.021.
Statistical methods and their application to biological data, including: introduction to probability. The binomial, poisson, negative binomial, normal distributions; student’s t, x² and variance ratio tests of significance based on the above distributions, the analysis of variance of orthogonal and some non-orthogonal designs. Linear regression and correlation. Introduction to non-linear and multiple regression. Introductory factorial analysis. Introduction to experimental design. Non-parametric statistics, including tests based on x², the Kruskal-Wallis test, Fisher’s exact probability test and rank correlation methods.

45.201 Invertebrate Zoology S2 L2T4
Prerequisites: 17.011 or 17.031, 17.021.
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 S1 or S2 L2T4
Prerequisites: As for 45.201 above.
A comparative study of the Chordata. Morphology, systematics, evolution, natural history, with reference to selected aspects of physiology and reproduction. Practical work supplements lectures. Field excursions as arranged. This unit is offered in Sessions 1 and 2.

45.112 Marine Ecology S1 L2T4
Prerequisites: 17.011 or 17.031 and 17.021 plus 45.201 or 25.022 or 2.002D.
A study of the ecology of marine organisms with particular reference to the physical, chemical and biological environment in which they occur. Both field and laboratory practical work are included.

45.121 Evolutionary Theory S1 L3T3
Prerequisites: 17.011 or 17.031, 17.021.
Current evolutionary theory, emphasizing the population level. Ecological genetics, evolutionary aspects of ecological nitch theory, speciation, coevolution and general evolutionary genetics. Some background in genetics is desirable.

45.122 Animal Behaviour S2 L2T4
Prerequisites: 45.101, 45.201, 45.301.
An introduction to ethology, the biological study of behaviour. Physiological, ecological, developmental and evolutionary aspects of behaviour are examined as important elements in the analysis of behaviour, particularly social behaviour. Both field and laboratory work are included.

School of Sociology

Undergraduate Study

53.001 Introduction to Sociology (Double Unit)
An introduction to major issues in Sociology. Two main themes: culture, society and institutions; and, social inequality. Issues: social control, power, racism, sexism, work and leisure, class distinctions are treated both factually and theoretically. Considers these issues as they relate to the situation in Australia and in the developing countries.
45.132 Comparative and Environmental Physiology S1 L2T4

Prerequisites: 45.301, 41.101, 45.201.

The physiology of the various classes of vertebrate animals with emphasis on the adaptation of the animal to its environment. Includes: osmotic and ionic regulation, respiration and circulation, temperature regulation, nerve and muscle function, digestion and metabolism.

45.142 Developmental and Reproductive Biology S1 L2T4

Prerequisites: 45.201, 45.301.

A survey of reproductive mechanisms, reproductive histology, reproductive endocrinology and embryology, with particular reference to the comparative aspects in vertebrate species. A detailed treatment of marsupial and monotreme reproduction.

45.152 Population and Community Ecology S1,S2 L2T4

Prerequisites: 17.021 and 10.001 or 10.011.

Examination of the dynamics of one, two or more interacting populations. Systems analysis and simulation in ecology. Theoretical and mathematical analysis of the dynamics and stability of ecosystems. Topics in the optimal management of renewable resources. Unifying concepts in ecology. Previous experience of ecologically orientated courses would be advantageous.

45.202 Advanced Invertebrate Zoology S2 L2T4

Prerequisite: 45.201.

A comparative study of the environmental and sensory physiology of invertebrates, with special emphasis on orientation behaviour, reproductive behaviour, social organization, pheromones, bioluminescence and rhythms. Experimental work is included.

45.302 Vertebrate Zoogeography S2 L2T4

Prerequisite: 45.301. Co-requisite: 45.122 or 45.132 or 45.142.

A geographic approach to the current distribution, abundance and types of vertebrate species in the Australian region. Emphasis on: the basic principles of speciation, the history of the Australian continent, vertebrate adaptations and changes in the distribution and abundance of the Australian vertebrate fauna under the influence of man.

45.402 Insects S1,S2 L2T4

Prerequisites: 45.201, 45.101.

A comparative study of the internal anatomy and external morphology of insects. Classification and bionomics of major groups and families. A collection of insects is to be made. Practical work to include dissections, a study of mouthparts, wing venations, segmentation, etc. Field excursions as arranged.

45.412 Insect Physiology S1 L2T4

Prerequisite: 45.402.

The functions of the various organ systems and of the whole insect. Various aspects of reproduction, growth and metabolism. Experimental work to illustrate the lecture course.
Financial Assistance to Students

The scholarships and prizes listed below are available to students whose courses appear in this handbook. Each faculty handbook contains in its Faculty Information 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

As well as the assistance mentioned earlier in this handbook see General Information: Financial Assistance to Students, there are number of scholarships available to students. What follows is an outline only. Full information may be obtained from the Student Employment and Scholarships Unit, 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.
Undergraduate Scholarships (continued)

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td></td>
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</tr>
<tr>
<td>Bursary Endowment Board*</td>
<td>$150 pa</td>
<td>Minimum period of approved degree/combined degree course</td>
<td>Merit in HSC and total family income not exceeding $4000.</td>
</tr>
<tr>
<td>Sam Cracknell Memorial</td>
<td>Up to $3000 pa payable in fortnightly instalments</td>
<td>1 year</td>
<td>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.</td>
</tr>
<tr>
<td>Air Force Association Memorial Scholarship</td>
<td>Up to $250 pa</td>
<td>1 year renewable for the duration of the course subject to satisfactory progress</td>
<td>Child of member or former member of Royal Australian Air Force undertaking a full-time degree course.</td>
</tr>
<tr>
<td>Girls’ Realm Guild Scholarship</td>
<td>Up to $1500 pa</td>
<td>1 year renewable for the duration of the course subject to satisfactory progress and continued demonstration of need</td>
<td>Available only to female students under 35 years of age enrolling in any year of a full-time undergraduate course on the basis of academic merit and financial need.</td>
</tr>
</tbody>
</table>

Graduate Scholarships

Applications for scholarships should be made in triplicate on the required form, and sent to the Registrar by 31 October. Eligibility depends on such factors as the applicant holding an honours degree or equivalent qualification, or having relevant experience. Students completing the final year of a course may apply. Those under bond should disclose this fact. Awards are tenable for one year, and may be renewed for a maximum of two years for a Masters and 3 to 4 years for a PhD degree. Renewal each year is subject to satisfactory progress. Any exemptions from these requirements are indicated.

Application forms and further information are available from the Student Employment and Scholarships Unit, which is located on the ground floor of the Chancellery. This Unit produces the booklet Graduate Awards, and also provides information on additional scholarships which may become available from time to time, mainly from funds provided by organizations sponsoring research projects.

*Apply to the Secretary, Bursary Endowment Board, Box 460, PO, North Sydney 2060 immediately after sitting for HSC.
### Graduate Scholarships (continued)

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
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</thead>
<tbody>
<tr>
<td>University of New South Wales Research Awards</td>
<td></td>
<td>1-2 years for a Masters and 3-4 years for a PhD degree</td>
<td>Applicants must be honours graduates (or equivalent).</td>
</tr>
<tr>
<td>Commonwealth Government (Research Awards)</td>
<td>Living allowance of $4200 pa. Other allowances may also be paid</td>
<td>As above</td>
<td>Applicants must be honours graduates (or equivalent) who will graduate with honours in current academic year, and who are permanent residents of Australia.</td>
</tr>
<tr>
<td>Commonwealth Government (Course Awards)</td>
<td></td>
<td>1-2 years; minimum duration of course</td>
<td>Applicants must be graduates or scholars who will graduate in current academic year and who are permanent residents of Australia, and who have not previously held Commonwealth Postgraduate Award. Applications to Registrar by 30 September.</td>
</tr>
<tr>
<td>Australian Federation of University Women</td>
<td>A total of $500/$3200</td>
<td>Up to 1 year</td>
<td>Applicants must be graduates, senior scholars or post-doctoral Fellows. Applications close 30 September.</td>
</tr>
<tr>
<td>The British Council Commonwealth University Interchange Scheme</td>
<td>Cost of travel to UK or other Commonwealth country university</td>
<td></td>
<td>Applicants must be female graduates from any accredited Australian or overseas university.</td>
</tr>
<tr>
<td>The Caltech Woman Graduate of the Year Scholarship</td>
<td>$5000 pa for further studies in USA, UK, Northern Europe or in special cases Australia. There are no special allowances for travel or accommodation for married graduates</td>
<td>2 years</td>
<td>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.</td>
</tr>
</tbody>
</table>

*Application forms are available from: The Secretary, Department of Education, AAEF Travel Grants, PO Box 826, Woden, ACT 2606.
<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canadian Pacific Airlines Award for Travel to Canada for University Graduates</td>
<td>One free economy class return flight a year to Canada</td>
<td>Occasionally 2 years</td>
<td>Graduates of an Australian university who are Australian citizens or permanent residents. Candidates must have been accepted by a Canadian university, be able to support themselves on a full-time basis, and intend to return to Australia. Applications close with Registrar by 31 May.</td>
</tr>
<tr>
<td>Commonwealth Scholarship and Fellowship Plan</td>
<td>Varies for each country. Generally covers travel, living, tuition fees, books and equipment, approved medical expenses. Marriage allowance may be payable</td>
<td>Usually 2 years, sometimes 3</td>
<td>Graduates who are Commonwealth citizens or British Protected Persons, and who are not older than 35 years of age. Applications close with Registrar by 1 October.</td>
</tr>
<tr>
<td>Gowrie Graduate Research Travelling Scholarship</td>
<td>Maximum $2000 pa</td>
<td>2 years</td>
<td>Applicants must be members of the Forces or children of members of the Forces who were on active service during the 1939-45 War.</td>
</tr>
<tr>
<td>Harkness Fellowships of the Commonwealth Fund of New York*</td>
<td>Living and travel allowances, tuition and research expenses, book and equipment and other allowances</td>
<td>Between 12 to 21 months</td>
<td>Candidates must be either: 1. Members of the Commonwealth or a State Public Service or semi-government Authority. 2. 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 and be between 21-30 years of age. Applications close 23 July.</td>
</tr>
<tr>
<td>Frank Knox Memorial Fellowships at Harvard University</td>
<td>Stipend of $3600 plus tuition fees pa</td>
<td>2 years</td>
<td>Applicants must be British subjects and Australian citizens, who are graduates or near graduates of an Australian university.</td>
</tr>
</tbody>
</table>

*Applications forms must be obtained from the Australian representative of the Fund, Mr L.T. Hindle, Reserve Bank of Australia, Box 3947, GPO, Sydney, NSW 2001. These must be submitted to the Registrar by 24 July.
### Graduate Scholarships (continued)

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nuffield Foundation Commonwealth Travelling Fellowships†</td>
<td>Living and travel allowances</td>
<td>1 year</td>
<td>Australian citizens usually between 25 and 35 who are graduates preferably with higher degrees and who have at least a year's teaching or research experience at a university. Applications close by February. Unmarried male and female British subjects, between the ages 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 July each year. The field of study is unrestricted. Applications close early September each year.</td>
</tr>
<tr>
<td>The Rhodes Scholarship**</td>
<td>£3000 stg pa</td>
<td>2 years, may be extended for a third year</td>
<td></td>
</tr>
<tr>
<td>Rothmans Fellowships Award‡</td>
<td>$12,000 pa</td>
<td>Up to 3 years</td>
<td></td>
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</table>

### Professional Studies

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospitals and Charities Commission of Victoria*</td>
<td>$3500 pa plus dependents' allowances and certain university expenses</td>
<td>2 years</td>
<td>A cadetship to enable graduates to qualify for the degree of Master of Health Administration. The holder is required to remain in hospital employment for 2 years after graduation. Applications by 31 July.</td>
</tr>
</tbody>
</table>

†Applicants to the Secretary, The Nuffield Foundation Australian Advisory Committee, PO Box 783, Canberra City 2601.

**Applications to Mr H. McCredie, Secretary of the NSW Committee, University of Sydney, NSW 2006.

‡Applications to The Secretary, Rothmans University Endowment Fund, University of Sydney, NSW 2006.

*Further details may be obtained from the Commissions in Sydney and Melbourne, or from the School of Health Administration.
Prizes

Undergraduate University Prizes

The following table summarizes the undergraduate prizes awarded by the University. Prizes which are not specific to any School are listed under ‘General’. All other prizes are listed under the Faculty or Schools in which they are awarded.

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sydney Technical College Union Award</td>
<td>50.00</td>
<td>Leadership in the development of student affairs, and academic proficiency throughout the course.</td>
</tr>
<tr>
<td>University of New South Wales Alumni Association</td>
<td>Statuette</td>
<td>Achievement for community benefit — students in their final or graduating year.</td>
</tr>
<tr>
<td>Professor McMahon Prize</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>School of Health Administration</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rupert Fanning Memorial</td>
<td>25.00</td>
<td>Bachelor of Health Administration degree course</td>
</tr>
<tr>
<td>Anthony Suleau</td>
<td>25.00</td>
<td>16.601 Behavioural Science I</td>
</tr>
<tr>
<td>Grace Suleau</td>
<td>25.00</td>
<td>14.023 Accounting for Health Administration</td>
</tr>
</tbody>
</table>

Graduate University Prizes

The following table summarizes the graduate prizes awarded by the University.

| **General** |         |             |
| The Thistlethwayte Memorial Prize | 100.00  | Best essay in the field of water — waste water treatment or water quality management, by MEngSc, MAppSc, ME, MSc student. |

| **School of Education** |         |             |
| New South Wales Institute for Educational Research | 25.00   | General proficiency in educational research. |
| New South Wales Department of Education | 32.00   | Outstanding ability in both academic studies and practice teaching. |

| **School of Health Administration** |         |             |
| Australian General Hospital Association | 150.00 | General proficiency in Master of Health Administration or Master of Health Planning degree courses. |
Staff

Comprises Schools of Education, Health Administration, Librarianship and Social Work.

Acting Dean
Professor R. M. Golding

Chairman
Professor M. Weinstock

School of Education

Professor of Education and Head of School
*Leslie Melville Brown, MA MEd Syd., PhD Lond.

Professors of Education
Martin Cooper, BSc Man., MA(Ed) Dal., PhD Ott., DipEd Syd.
Desmond John Drinkwater, MA Syd., MA PhD Lond., ABPS, MAPS, MACE

Professor of Science Education and Director of Science Teachers' Courses
Austin Adolphus Hukins, MSc DipEd Syd., PhD Alta., MACE

Senior Lecturers
Robert John Barry, BSc N.S.W., BA DipEd PhD Syd., MSc Macq.
Colin Fraser Gauld, BSc DipEd PhD Syd.
James Henry Gribble, BA PhD Melb., MPhil Lond.
Colman Kevin Harris, BA MEd Syd.
Barry Charles Newman, BA MSc PhD Syd.
Shelley Phillips, BA Melb., PhD Syd.

Lecturers
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Shirley Louise Smith, BA PhD Syd.
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Christopher Evans, BSc DipEd Syd.
Ronald Charles Hurley, BA N.E., MEd N.S.W.
Ronald George Johnson, MA Oxf., MEd Syd., DipEd Rdg.
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The University of New South Wales

Kensington Campus 1979

Theatres

Biomedical Lecture Theatres  E27
Central Lecture Block  E19
Classroom Block (Western Grounds)  H3
Electrical Engineering Theatre  F17
Keith Burrows Lecture Theatre  J14
Mathews Theatre  D23
Old Main Theatre  K15
Parade Theatre  E3
Science Theatre  F13
Sir John Clancy Auditorium  C24

Buildings

Affiliated Residential Colleges

New (Anglican)  L6
Shalom (Jewish)  N9
Warrane (Roman Catholic)  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  D18

Dalton  F12
Robert Hefron  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
John Goodsell (Commerce)  F20
Kensington College  C17
Basser  C18
Goldstein  D18

Philip Baxter  D14
Main Building  K15
Maintenance Workshop  B13
Mathews  F23
Mechanical and Industrial Engineering  J17
Medicine (Administration)  B27
Menzies  E21
Metallurgy  E8
Morven Brown (Arts)  C20
New College (Anglican)  L6
Newton  J12
Parking Station  H25
Philip Baxter College  D14
Robert Hefron (Chemistry)  E12
Sam Cracknell Pavilion  H8
Shalom College (Jewish)  N9
Sir Robert Webster  (Textile Technology)  G14
Squash Courts  B7
Uniresearch House  L5
University Regiment  J2
University Union (Roundhouse)  —  Stage I  E4
University Union (Squarehouse)  —  Stage I  E4
Wallace Wurth School of Medicine  C27
Warrane College (Roman Catholic)  M7
Wool and Pastoral Sciences  B8

General

Accountancy  C20
Admissions Office  C22
Anatomy  C27
Applied Geology  F10
Applied Science (Faculty Office)  F10
Appointments Office  C22
Architecture  (Including Faculty Office)  H14
Arts  (Faculty Office)  C20
Australian Graduate School of Management  F23
Biochemistry  D26
Biological Sciences (Faculty Office)  D26
Biological Technology  D26
Biomedical Library  F23
Bookshop  G17
Botany  D26
Building  H14
Cashier's Office  C22
Centre for Medical Education Research and Development  C27
Chaplains  E15a
Chemical Engineering  F10
Chemical Technology  F10
Chemistry  E12
Child Care Centre  N8
Civil Engineering  H20
Closed Circuit Television Centre  F20
Commerce (Faculty Office)  F20
Community Medicine  D20
Computing Services Unit  E21
Drama  D9
Economics  F20
Education  G2
Electrical Engineering  G17
Engineering (Faculty Office)  K17
English  C20
Examinations and Student Records  C22
Fees Office  C22
Food Technology  F10
French  C20
General Studies  C20
Geography  K17
German  C20
Health Administration  C22
History  C20
History and Philosophy of Science  C20
Industrial Arts  C1
Industrial Engineering  J17
Institute of Languages  G14
Institute of Rural Technology  B8
Kindergarten (House at Pooh Corner / Child Care Centre)  N8
Landscape Architecture  H14
Law (Faculty Office)  E21
Law Library  E21
Librarianship  B10
Library  E21
Lost Property  F20
Marketing  F20
Mathematics  F23
Mechanical Engineering  J17
Medicine (Faculty Office)  B27
Metallurgy  E8
Microbiology  D26
Mining Engineering  K15
Music  B11
National Institute of Dramatic Art  C15
Nuclear Engineering  G17
Optometry  J12
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
Postgraduate Committee in Medical Education  B27
Postgraduate Extension Studies (Closed Circuit Television)  F20
Postgraduate Extension Studies (Radio Station and Administration)  F23
Psychology  F23
Public Affairs Unit  C22
Regional Teacher Training Centre  C27
Russian  C20
Science and Mathematics Course Office  F23
Social Work  E1
Sociology  C20
Spanish and Latin American Studies  C20
Student Amenities and Recreation  E15c
Student Counselling and Research  E15c
Student Employment  C22
Student Health  E15
Students' Union  E4
Surveying  K17
Teachers' College Liaison Office  F16
Tertiary Education Research Centre  E15d
Textile Technology  G14
Town Planning  K15
University Union (Blockhouse)  G6
Wool and Pastoral Sciences  B8
Zoology  D28
This Handbook has been specially designed as a source of reference for you and will prove useful for consultation throughout the year.

For fuller details about the University—its organization, staff membership, description of disciplines, scholarships, prizes, and so on, you should consult the Calendar.

The Calendar and Handbooks also contain a summary list of higher degrees as well as the conditions for their award applicable to each volume.

For detailed information about courses, subjects and requirements of a particular faculty you should consult the relevant Faculty Handbook.

Separate Handbooks are published for the Faculties of Applied Science, Architecture, Arts, Commerce, Engineering, Law, Medicine, Professional Studies, Science (including Biological Sciences and the Board of Studies in Science and Mathematics), the Australian Graduate School of Management (AGSM) and the Board of Studies in General Education.

The Calendar and Handbooks are available from the Cashier’s Office. The Calendar costs $3.50 (plus postage and packing, 90 cents). The Handbooks vary in cost. Applied Science, Arts, Commerce, Engineering, Professional Studies and Sciences are $2.50. Architecture, Law, Medicine and AGSM are $1.50. Postage is 40c in each case. The exception is General Studies, which is free.