The University of New South Wales

Professional Studies

1977 Faculty Handbook
Arms of The University of New South Wales

Heraldic Description of Arms

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 is not an integral part of the Grant of Arms and could be changed at will; but it was the opinion of the University Council that the relationship with the parent institution should in some way be recorded.
The University of New South Wales

Professional Studies

1977 Faculty Handbook
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

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Annual. Kensington.
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# Professional Studies

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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 663 0351 and ask for the extension or dial 662—and then the extension 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, Mr Stephen Briand, are located on the first floor of the Chancellery. They will see students who need advice and who have problems and are not sure whom they should see about them. Mr Briand looks after financial assistance matters. Enquire at room 148A, phone 2482 or 3164.

The Assistant Registrar (Examinations and Student Records), Mr John Warr, is located on the ground floor of the Chancellery. For particular enquiries regarding Student Records (including matters related to illness affecting study) contact Mr Jack Morrison (phone 2141), and regarding Examinations, Mr John Grigg (phone 2143). This section can also advise on matters relating to discontinuation of subjects and termination of courses. General enquiries should be directed to 3711.

The Assistant Registrar (Admissions and Higher Degrees), Mr Jack Hill, is located on the ground floor of the Chancellery. For particular enquiries regarding undergraduate courses phone Mr John Beauchamp on 3319. General enquiries should be directed to 3711.
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 Naphthal. 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 3681, 3685 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 consult Rev Phillip Jensen (Anglican)—2684; Rev Father Michael Fallon (Catholic)—2379; Dr Allen Elliott (Church of Christ)—2683; Rev Peter Holden (Methodist)—2683; Mr Glen Weare (Seventh Day Adventist)—3273; Mr Ze'ev Dar (Jewish)—3273; Rev Barry Waters (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 or Education Vice-President 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), health insurance and AUS insurance, an information referral centre (the Infakt Bus), a bell fund and publications such as Tharunka, Orientation Magazine, Concessions Book and counter-course handbooks. For information about these phone 2929.

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**Calendar of Dates**

**1977**

**Session 1**
- **(14 weeks)**
- **Session 2**
- **(14 weeks)**

**January**
- Monday 3
- Friday 7

**February**
- Saturday 5
- Monday 14
- Tuesday 15

**March**
- Monday 14
- Tuesday 6

**April**
- Monday 24
- Monday 31

**May**
- Monday 14
- November
- Annual examinations begin
- Tuesday 6
- Annual examinations end

**June**
- Monday 24

**July**
- Monday 24

**August**
- Tuesday 15
- Friday 18
- Monday 21

**September**
- Tuesday 22

**October**
- Monday 24

**November**
- Monday 14
- November
- Annual examinations begin
- Tuesday 6
- Annual examinations end

**December**
- Monday 24

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*Note: The text includes details about the schedule, holidays, and key dates for the academic year, including sessions, holidays, and important events.*
Friday 28 March
Monday 7
Friday 11
Thursday 17
April
Friday 1
Friday 8 to Monday 11
Monday 25
Friday 29
May
Tuesday 10
Thursday 12
Monday 16
Friday 20
Saturday 21
Monday 23
June
Tuesday 7
Monday 13
Sunday 19
Monday 20
Tuesday 21
July
Tuesday 5
Saturday 23
Monday 25
Thursday 28
August
Friday 5
Friday 19
Monday 29
Wednesday 31
September
Saturday 3
Monday 12
Wednesday 14
Friday 16
Tuesday 27
Friday 30
October
Monday 3
Friday 7
Tuesday 25
November
Saturday 5
Monday 7
Monday 14
December
Tuesday 6
Sunday 25
Monday 26
Tuesday 27

**General Information**

- Session 1 commences
- Last day for acceptance of enrolments by new students (late fee payable)
- Last day for appeal against exclusion by students who infringed re-enrolment rules at deferred examinations
- Last day to enrol in additional subjects
- Easter
- Anzac Day—Public Holiday
- Last day for students attending the University for the first time to discontinue without failure subjects which extend over Session 1 only
- Publication of provisional timetable for June/July examinations
- Last day for acceptance of corrected enrolment details forms
- Last day for applications from students completing requirements at end of Session 1 for admission to University degrees and diplomas
- May Recess begins
- 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
- May Recess ends
- Last day for students to advise of examination timetable clashes
- Publication of timetable for June/July examinations
- Queen's Birthday—Public Holiday
- Session 1 ends
- Midyear Recess begins
- Midyear examinations begin
- Midyear examinations end
- Midyear Recess ends
- Session 2 begins
- Foundation Day
- Last day for students attending the University for the first time to discontinue without failure subjects which extend over the whole academic year
- Last day for students other than those attending the University for the first time to discontinue without failure subjects which extend over Session 2 only
- August Recess begins
- Last day for return of corrected enrolment details forms
- Last day for students attending the University for the first time to discontinue without failure subjects which extend over Session 2 only
- Publication of provisional timetable for annual examinations
- Last day to apply to MUAC for transfer to another university in Sydney metropolitan area and Wollongong
- Eight Hour Day—Public Holiday
- Last day for students to advise of examination timetable clashes
- Publication of timetable for annual examinations
- Session 2 ends
- Study Recess begins
- Annual examinations begin
- Annual examinations end
- Christmas Day
- Boxing Day
- Public Holiday
### 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.

In 1976 the University had 18,378 students and 4000 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.

### 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 42 members representative of the professions, commerce and industry, the legislature, employee organizations, rural, pastoral and agricultural interests, and the academic staff of the University, its graduates and students.

The Council meets six times per year and its members also serve on special committees dealing with such matters as 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.

### The Faculties

The Dean, who is also a professor, is the executive head of the Faculty. Members of each Faculty 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.
General Information

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, Science together with the Australian Graduate School of Management. In addition, 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 professorial 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, 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 Albert Willis; 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 Bob 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.

The Property Division is concerned with the maintenance of buildings and grounds and equipment, and includes the University Architect's office.

Student Representation on Council and Faculties

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

Students proceeding to a degree or a graduate diploma may elect one of their number to a Faculty for each 500 registered students, with a minimum of three students per Faculty. Elections are for a one-year term of office. New provisions for student membership of faculties and boards of studies have been approved by Council, providing for each faculty/board to recommend its own formula for determining the number of students eligible.

Open Faculty Meetings

If you wish you may attend a Faculty 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 the students who have most distinguished themselves in 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 below Subject Descriptions and Textbooks. This is also published in the Calendar.

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 G54, Morven Brown Building (663 0351 Extn. 3478).
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 Sciences 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 6022/3/4.

The library at the Royal Military College, Duntroon, ACT, serving the Faculty of Military Studies.

Each library provides reference and lending services to staff and students and each of the libraries on the Kensington campus is open throughout the year during 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. For students, a current union card is acceptable. Staff must apply to the library for a library card.

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. Phone: 663 6199.

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 Amen-
The medical service, although therapeutic, is not in-
health. The service is available to all enrolled students by
specialist opinion and/or treatment. The health services. Thus, where chronic or continuing conditions
tended to entirely replace private or community health
within the University. It is staffed by three qualified
A student health clinic and first aid centre is situated
Mondays to Fridays. For staff members, immunizations
is necessary but there may be some delay in February and March. The Housing staff are always happy to discuss any aspect of accommodation.
Special pamphlets on accommodation, lists of estate agents and hints on house-hunting are available on request.
Location: The Student Accommodation Service is located in Hut B, near the foot of Basser Steps. Phone 663 0351, extension 3250.

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 campus interview program for final year students.
Careers advice and assistance is also available to undergraduates. Assistance is offered in finding vacation employment which gives either course-related experience or Industrial training experience, where this is a course requirement. Information and advice regarding cadetships, undergraduate and graduate scholarships is also available.
The service is located in the Chancellery on the ground floor.
Phone extension 3259 for employment and careers advice, or extension 2086 for cadetships 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 are available, and first aid service in the case of injury or illness on the campus.
The centre is located in Hut E on the northern side of the campus in College Road at the foot of the Basser Steps.
Appointments may be made by calling at the centre or by telephoning 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 698 9499, or for The Prince of Wales Hospital clinics by telephoning 399 0111.

Student Counselling and Research

The Student Counselling and Research Unit provides individual and group counselling for all students—prospective, established and graduate. Self-help programs are also available. 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 663 0351, 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. 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; and, in consultation with the Sports Association, assists various recognized clubs.

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 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.

A full-time President, elected each year by popular ballot, directs the entire administration of the Students' Union and its activities, through the permanent Administrative Officer.

Other full-time officers include the Education Vice-President who works towards the implementation of Student Union education policy and in assisting 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.

Both are elected by students with the latter elected by overseas students.

Membership is compulsory at $10 per annum*.

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.

* A rise in Students' Union fees may occur in 1977.
7. A free legal service run by a qualified lawyer employed by the Students’ Union Council.
8. Students’ Union Record Shop which gives an 18% discount.
9. The Nuthouse which deals in bulk and health foods.
10. Secondhand Bookshop for cheap texts.
11. Clubs and societies receive money from the Students’ Union through CASOC (Clubs and Societies on Campus).

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 III, the Union.

Chaplaincy Centre
This service is provided for the benefit of students and staff by 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.

Australian Armed Forces Enquiries should be directed to:
Royal Australian Navy: Royal Australian Naval Liaison Officer, Professor J. S. Ratcliffe, Commander, RANR, at the School of Chemical Engineering. Phone extension 2406.
University of New South Wales Regiment: The Adjutant, Regimental Depot, Day Avenue (just west of Anzac Parade). Phone 663 1212.

Royal Australian Air Force: Undergraduates interested in the RAAF Undergraduate Scheme should contact The Recruiting Officer, Defence Forces Recruiting Centre, 320 Castlereagh Street, Sydney.

Financial Assistance to Students

Tertiary Education Assistance Scheme
Under this scheme, which is financed by the Australian 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.

Students in the following types of university courses are eligible for assistance:
- Undergraduate and graduate degree courses
- Graduate diplomas
- Approved combined Bachelor degree courses
- Master’s qualifying courses if the course is the equivalent of an honours year and the student has not attempted an honours year.

Benefits (as at 30 June 1976)
Means-tested Living Allowance The maximum rates of living allowances are $1,000 per annum for students living at home and $1,600 per annum for students living away from home. The maximum rates of living allowance will be paid where the adjusted family income is equal to or less than $7,600 per annum. The adjusted family income is assessed by subtracting from the gross income of both parents their business expenses and an amount of $450 for each dependent child other than the student. When the adjusted family income exceeds $7,600 pa the amount of living allowance will be reduced by $2 for every $10 of income until the family income exceeds $15,200 per annum. After this level, the living allowance will be reduced by $3 for every $10 of income.

A concession may be made where there are other children in the family undertaking tertiary education with scholarship assistance from schemes other than the Tertiary Education Assistance Scheme of less than $600 pa.
Professional Studies

Students qualifying for living allowance will also receive the following allowances where appropriate:

Incidentals Allowance The Incidentals Allowance of $100 is designed to help the student meet the cost of those fees which have not been abolished—the Students’ Union, University Union and Sports Association fees, and other expenses associated with their studies.

Travel Allowance Students whose home is in the country may be reimbursed the cost of three return trips per year, during vacation time.

Dependants’ Allowance This is made up of allowances of $15 per week for a dependent spouse and $7 per week for each child.

How to Apply 1976 Higher School Certificate candidates and tertiary students receiving an allowance were sent forms last October. Other students may obtain forms from the Admissions Section or the Student Employment and Scholarships Unit, or from the Regional Director, Department of Education, 323 Castlereagh Street, Sydney, NSW 2000 (Phone 218 8800). The administrative closing date for 1977 applications was 31 October 1976.

Scholarships, Cadetships, Prizes

1. Undergraduate Scholarships In addition to finance provided under the Australian 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.

Other Financial Assistance

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

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

2. Short Term Cash Loans Donations from 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 Australian 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.

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.

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

Inquiries about all forms of financial assistance should be made at the office of the Deputy Registrar (Student Services), Room 148A, in the Chancellery.

Financial Assistance to Aboriginal Students

Financial assistance is available from a number of sources to help Aboriginal students. Apart from the Australian Government’s Tertiary Education Assistance Scheme there is a Commonwealth Aboriginal Study Grant Scheme. Furthermore, the University may assist Aboriginal students with some essential living expenses in exceptional circumstances.

All inquiries relating to this scheme should be made at the office of the Deputy Registrar (Student Services), Room 148A, in the Chancellery.

Fund for Physically Handicapped and Disabled Students

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

Admission

Where can I get information about admission?

The Admissions Office, located in the Chancellery on the upper campus, provides information for students on admission requirements, undergraduate and graduate courses and enrolment procedures. The Admissions 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.

Applications for special admission, admission with advanced standing and from persons relying for admission on overseas qualifications should be lodged with this office. 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.

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 also 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 1977 must lodge an application for selection with the Metropolitan Universities Admissions Centre, PO Box 7049, GPO, Sydney 2001, by 1 October 1976.
Professional Studies

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 below).

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

First Year Repeat Students

First year students who failed more than half the program at the 1976 Annual Examinations and who were not granted any deferred examinations should NOT follow the above procedure. They are required to show cause why they should be allowed to continue in the course, and should await instructions in writing from the Registrar as to the procedure.

Later Year Enrolments

Students should enrol through the appropriate School in accordance with the procedures set out in the current year's booklet, Enrolment Procedures, available from the Admissions Office and from School offices.

New Research Students

Students enrolling for the first time in graduate research degrees will receive an enrolment form by post. They have two weeks from the date of offer of registration in which to lodge the enrolment form with the Cashier and pay the appropriate fees. Completion of enrolment after this time will incur a penalty (see below).

Re-enrolling Research Students

Students re-enrolling in research degrees should lodge the enrolment form with the Cashier as soon as possible but no later than the end of the second week of Session 1. Completion of enrolment after that date will incur a penalty (see below).

Submission of Graduate Thesis or Project Report at Commencement of Session 1

A candidate who has completed all the work for a graduate degree except for the submission of a thesis or project report is required to re-enrol and pay fees as outlined above unless the thesis or project report is submitted by the end of the second week of Session 1 in which case the candidate is not required to re-enrol. Those required to re-enrol may claim a refund of fees if able to withdraw (see below).

Miscellaneous Subject Enrolments

Students may be permitted to enrol for miscellaneous subjects (i.e. 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.

Students who have obtained written permission to enrol may attend the Unisearch House enrolment centre on:

- Friday 4 March
  - 9.30 am to 12.30 pm
- or they may attend the Admissions Office, Chancellery, at the times shown below.

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 (18 March 1977) 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 (1 April 1977) 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 (5 August 1977) except with the express approval of the Deputy Registrar (Student Services) and the Heads of Schools concerned.

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 vouch-

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To transfer from one course to another you must apply. Details regarding "Admission with Advanced Standing" you may be admitted to the course of study with such degree or other award granted by the University automatically exempting a student from the requirements 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.

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.

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 16 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. You should also inform the enrolling officer of the school in which you are enrolled of your intention to transfer.

Can I change my course program?

If you wish to seek approval to substitute one subject for another, 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 the School office. The Registrar will inform you of the decision. Application to enrol in additional subjects or to discontinue part or all of your program, you must be determined by the Professorial Board. For complete details regarding "Admission with Advanced Standing" consult the University Calendar.

Withdrawal from subjects

Students are permitted to withdraw from subjects without being exempted a student from the requirements of enrolling and paying fees.

First Year Students
1. one-session subjects: the end of the fourth week of session; 
2. double-session subjects: the end of the May Recess.

Other Students
1. one-session subjects: the end of the fourth week of session; 
2. double-session subjects: the end of the May Recess.

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

If you have had a leave of absence for twelve months 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 either in December of the preceding year or before October in the year preceding that in which you wish to resume your course.

If you have not obtained leave of absence from your course and have not been enrolled in the course over the past twelve months or more, then you should apply for admission to the course through the Metropolitan Universities Admission Centre before 1 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-enrol and retain valuable class places.

First-year Rule
1. A student enrolled for the first time in any undergraduate course in the University shall be required to show cause why he/she should be allowed to continue the course if that student 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. Failure in a deferred examination as well as in the initial examination counts for the purposes of this rule as one failure.

*For details of Schedule A see Restrictions upon Students Re-enrolling in the University Calendar.
Professional Studies

General Rule

3. The Re-enrolment Committee may, on the recommendation of the relevant faculty or board of studies, review the academic progress of any student. If that student’s academic record seems to demonstrate, in the opinion of the Committee, the student’s lack of fitness to pursue a subject or subjects and/or a course or courses, the Committee may require that student to show cause why he/she should be allowed to re-enrol in such subject(s) and/or course(s).

The Session-unit System

4. A student who infringes the provisions 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.

B 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. 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.

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

'Showing Cause'

6. 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.

B 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. A 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-Chancellor.

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.

B 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.

C The Appeal Committee shall determine the appeal after consideration of the student’s academic record, his/her application for special permission to re-enrol, and the stated grounds of appeal. In exceptional circumstances, the Appeal Committee may require the student to appear in person.

Exclusion

8. A 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-enrol 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 enrol in any such course.

B 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-enrol 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 enrol in any such course.

C A student excluded from a course or courses under the provisions of A or B may not enrol as a miscellaneous student in subjects which may be counted towards any such course.

† It is proposed that under this arrangement, the membership of the Appeal Committee will be Pro-Vice-Chancellor J. B. Thornton (Chairman), Professor D. M. McCallum, Chairman of the Professorial Board, and a member of Council in the category of members elected by the graduates of the University, nominated by the Vice-Chancellor.
General Information

Re-admission after Exclusion

9. A  An excluded student may apply to the Re-enrolment Committee for re-admission after two academic years.

B  An application for re-admission after exclusion should be made on the form available from the Examinations and Student Records Section and should be lodged with the Registrar not later than 31 August in the year prior to that for which re-admission is sought. A late application may be accepted at the discretion of the University.

C  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 appropriate study in the subject(s) (or the equivalent) on account of which the applicant was excluded.

Restrictions and Definitions

10. A  These rules do not apply to students enrolled in programs leading to a higher degree or graduate diploma.

B  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?

Applications for admission to a degree or diploma of the University must be made on the appropriate form by 12 September, in a student’s final year. Forms are mailed to all final year students. Don’t forget to inform the University if you subsequently change your address so that correspondence related to the ceremony will reach you without delay. Applicants should ensure that they have completed all requirements for the degree or diploma, including Industrial training where necessary. Any variation such as cancelling of application in order to proceed to an honours degree or submission of an application following discontinuation of honours program, must be submitted in writing to the Registrar no later than 30 January.

What other fees and charges are payable?

Apart from the tuition fees (above) 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 their 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, but the full University Union entrance fee, if applicable.

Student Activities Fees

University Union—$25 entrance fee, payable on first enrolment

Sports Association—$5 annual subscription

Students’ Union:

Students enrolling in full-time courses—$10 annual subscription

Students enrolling in part-time courses—$8 annual subscription

Miscellaneous—$25 annual fee.

The miscellaneous fee is used to finance expenses generally of a capital nature relating to student activities. 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 1977 when fees are paid late:

Failure to lodge enrolment form according to enrolment procedure .... .... .... .... $20

* Fees quoted are current at the time of publication and may be amended by the Council without notice.

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?

As a result of a decision by the Commonwealth Government, no tuition fees are charged in 1977.
Locations and Hours of Cashier
Cashier’s Offices are open during the enrolment periods referred to in this booklet. The locations and hours are shown below:

Unisearch House
221 Anzac Parade

Week Commencing
21 February
Monday and Thursday
10.00 am to 1.00 pm
2.00 pm to 5.00 pm
6.00 pm to 9.00 pm
Wednesday
10.00 am to 1.00 pm
2.00 pm to 5.00 pm
Friday
9.30 am to 1.00 pm

Chancellery

Week Commencing
21 February
Monday to Friday
9.30 am to 1.00 pm
2.00 pm to 4.30 pm
6.00 pm to 8.30 pm
First Week of Session 1 Commencing 7 March
Monday to Friday
9.30 am to 1.00 pm
2.00 pm to 4.30 pm
5.30 pm to 8.00 pm
Second Week of Session 1 Commencing 21 March
Monday to Friday
9.30 am to 1.00 pm
2.00 pm to 4.30 pm
Fourth Week of Session 1 Commencing 14 March
Monday to Friday
9.30 am to 1.00 pm
2.00 pm to 4.30 pm
Friday 26
3.00 pm to 8.00 pm

Week Commencing
28 February
Monday to Thursday
9.30 am to 1.00 pm
2.00 pm to 5.00 pm
6.00 pm to 9.00 pm
Friday
9.30 am to 5.00 pm

Third Week of Session 1 Commencing 21 March

Fourth Week of Session 1 Commencing 14 March

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 academic requirements require no attendance on 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 permission to pursue their studies away from the Kensington campus for one or more sessions.

How much will textbooks and special equipment (if any) cost?
You must allow quite a substantial sum for textbooks. This can vary from $200 to $600 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.

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 (29 April 1977). 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 (2 September 1977).

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 are examination passes graded?

Passes are graded: High Distinction, Distinction, Credit and Pass. 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 pre-requisite. 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.

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 examination 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 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, and may be required to submit to medical 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.
Professional Studies

All medical certificates should be as specific as possible concerning the severity and duration of the complaint and its effect on the student's ability to take the examinations.

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.

A student suffering from a physical disability which puts him at a disadvantage in written examinations should apply to the Registrar in writing for special provision when examinations are taken. The student should support his request with medical evidence.

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.

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 ten 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 thirty minutes from the time of commencement of the examination.

5. No candidate shall be permitted to leave the examination room before the expiry of thirty 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 any 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. All answers must be in English unless otherwise directed. Foreign students who have the written approval of the Officer-In-Charge of Examinations may use standard translation dictionaries.

10. A candidate who commits any infringement of the rules governing examinations is liable to disqualification at the particular examination, to immediate expulsion from the examination room, and to such further penalty as may be determined in accordance with the By-laws.

Under what circumstances are deferred examinations granted?

Deferred examinations may be granted in the following cases:

1. When a student through illness or some other acceptable circumstance has been prevented from taking the annual examination or has been placed at a serious disadvantage during the annual examinations.

2. To help resolve a doubt as to whether a student has reached the required standard in a subject.

3. To allow a student by further study to reach the required standard in a subject.

4. Where a student's progression or graduation is inhibited by his failure in one subject only, a deferred examination may be granted notwithstanding his failure otherwise to qualify for this concession.

In the Faculties of Arts, Commerce and Law special circumstances apply in the granting of deferred examinations. Details in each circumstance are given in the section Faculty Information in the respective handbooks for these faculties, or in the Calendar.

Deferred examinations must be taken at the centre at which the student is enrolled, unless he has been sent on compulsory Industrial training to a remote country centre or Interstate. In this case the student must advise the Registrar, on a form available from his school or the Information Desk, the Chancellery, of relevant particulars, before leaving for his destination, in anticipation that deferred examination papers may have to be forwarded to him. Normally, the student will be directed to the nearest university for the conduct of the deferred examination.

Can I buy copies of previous examination papers?

Yes—for 5c each from the Union Shop in the University Union.
Essays

Should I list my sources?

Students are expected to acknowledge the sources of ideas and expressions that they use in essays. To provide adequate documentation is not only an 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.

However, now that you have become a member of the University you should understand that this involves an 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 of not more than one month or, on the recommendation of the Dean of the appropriate Faculty, for a longer period.

Applications for exemption from lectures (leave of absence) should be addressed to the Registrar and, where applicable, should be accompanied by a medical certificate. If examinations have been missed, state this in your application. If you fail a subject at the annual examinations in any year and re-enrol in the same course in the following year, you must include in your program of studies for that year the subject in which you failed. This requirement will not be applicable if the subject is not offered the following year; or it 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. If you attend less than eighty per cent of your possible classes, you may be refused permission to sit for the examination in that subject.

Why is my University Union card important?

All students enrolled for courses leading to degrees and/or diplomas, except those exempt from fees, are issued with a University 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 Union card it is important to notify the University Union as soon as possible. New students will be issued with University Union 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 Information Counters on the Ground Floor of the Chancellery Building.

These will be accepted up to 30 November, except for final year students who may advise changes up to four weeks before their 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 30 April and 30 August. 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 fourteen 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 from the Admissions Office, the Student Counselling Unit or the Registrar.

Notices

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

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, at the following times:

Full-time Students
In the Faculties of Architecture, Arts, Biological Sciences, Commerce, Law:
Monday 28 February 1977
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 1 March 1977
11 am in the Clancy Auditorium

Part-time Students
Tuesday 1 March 1977
6.30 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, Social Work, and the Department of Industrial Arts.

This handbook provides general information concerning the requirements for admission, enrolment and re-enrolment, as well as conditions for the award of degrees, course structures, subject descriptions and the textbook requirements. 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.

A. H. Willis
Acting Dean
Faculty of Professional Studies
Staff

Comprises Schools of Health Administration, Librarianship, Social Work, and Education; Department of Industrial Arts.

Acting Dean
Professor A. H. Willis

Chairman
Professor L. M. Brown

School of Education

Professor of Education and Head of School
Leslie Melville Brown, MA MEd Syd., PhD Lond.

Professor of Education
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
Colin Fraser Gauld, BSc DipEd PhD Syd.
James Henry Gribble, BA PhD Melb., MPhil Lond.
Colman Kevin Harris, BA MEd Syd.
Phillip Hugh Meade, BSc BEd Qld., MA LaT., PhD N.S.W.
Barry Charles Newman, BA MSc PhD Syd.

Lecturers
Robert John Barry, BSc N.S.W., BA DipEd Syd., MSc Macq.
Richard Martin Bibby, MA BD Otago
Rachel MacDonald Boyd, MA PhD Otago
Patricia Davies, BA City, N.Y., MSc Lond.
Michael Robert Matthews, BA BSc DipEd Syd.
Michael Francis Petty, BA Durr., DipEd MED Calg., PhD Wis.
Shelley Phillips, BA Melb., PhD Syd.
Shirley Louise Smith, BA PhD Syd.
Robert Thomas Solman, BSc N.S.W., BSc Tas.
John Sweller, BA PhD Adel.
Frederick Edward Trainer, BA PhD Syd.

Senior Administrative Officer
Jane Wholohan, BA DipEd Syd.

Administrative Assistant
Barbara Jane Molnar, BA Calli.
Staff Detached from the New South Wales Department of Education

Lecturers
William Anthony Buckley, BA DipEd N.E.
Edward John Owen Edwards, BA N.E.
Michael John Gunnourie, BSc DipEd Syd.
Peter James Hourigan, BEd Syd.
Ronald Charles Hurley, BA N.E., MEd N.S.W.
Ronald Lush Johnson, MA Syd, DipEd N.E.
Phillip Thomas Kitley, BA DipEd BEd N.E.
Yvonne Anne Larsson, MA Syd.
Kenneth William Palmer, BA N.E.
Margaret Cecilia Peppercorn, BA DipEd N.E.
Henry James Plunkett, BA Syd.
Timothy David Radford, BA N.E.
Susan Madge Sandor, BSc DipEd Syd.
Barry Royce Schlenker, BSc N.S.W.
John James Shelley, BEd Syd.
Kevin Victor Swinson, BA N.E.
Frank Howard Stuart Tebbutt, BSc DipEd Syd.
Kerry Evan Wheeler, BA N.E.

Research Assistant
Thomas Pepe, BA Long Is. Univ.

School of Health Administration

Professor and Head of School
George Rupert Palmer, BSc Melb., MEd Syd., PhD Lond., FSS, FHA

Associate Professor
John Colin Harris Dewdney, BA MD BS Melb., SM Harv., DPH Lond., DipTertEd N.E., FACMA, MFCM, MACE

Senior Lecturers
Erica Margaret Bates, BA DipSocStud Syd., PhD N.S.W.
Colin Grant, MA Oxon., AHA
John Roger Bancks Green, ARIBA, ARAIA, AADipl

Lecturers
Sydney Samuel Wilton Davis, LLM Syd.
Stephen John Duckett, BEd A.N.U., MHA N.S.W.
Timothy John Philips, BCom N.S.W., DipEd Syd.
Graeme Rawson, BA N.E., MA Macq.

Administrative Assistant
Adrian L. Landa, BA N.S.W.

Honorary Associates
R. L. Thomas, BCom Melb., FHA, FCIS, AASA
T. J. Wood, MB BS Melb., MHA N.S.W., FRACP, FACMA, AHA

Department of Industrial Arts

Associate Professor
Leslie Martin Haynes, BA MEd Syd., FRSA, FBPsS, FAIM, MACE

Lecturers
Donald McArthur Godden, MSc N.S.W.
William Richard Lawson, BSc PhD N.S.W.
Keith Alexander Lodge, BE Syd., SAEA
John Kyle Redmond, MA R.C.A., DipAd C.S.A.D., FRSA, AIDIA

Professional Officer
Janice Mary Waddell, BA Med.

School of Librarianship

Professor of Librarianship and Head of School
Melvin Weinstock, BSc Rutgers, MSc Drexel

Senior Lecturer
Carmel Jane Maguire, BA Qld., MA A.N.U., ALAA
Professional Studies

Lecturers
Jennifer Linsley Affleck, BA Syd., DipLib N.S.W., ALAA
Jack Richard Nelson, MA Syd., ALAA
Peter Orlovich, BA DipEd Syd., MLib N.S.W., ALAA
Patricia Wiliard, BA N.E., MLib N.S.W., ALAA

Senior Tutor
Merilyn Jean Bryce, BA Syd., DipLib N.S.W.

Tutor
Melanie Seymour, BA DipEd Syd., DipLib N.S.W., ALAA

Administrative Assistant
Peter Frank Kowald, BA DipEd Syd.

Honorary Associate
Wilma Radford, BA MEd Syd., BSc Col., FLAA

Senior Tutors
Jennifer Warner Wilson, BA BSocStud Syd.

Tutors
Jane Catherine Fishburn, BSW N.S.W.
Elizabeth Leu, BSW Qld.
Judith Estelle Taylor, BA DipSW W.Aust.

Teaching Fellow
Geoffrey Norman Channon, BSW N.S.W.

Administrative Assistant
Audrey Nancy Ferguson, BA DipSocStud Syd.

Research Assistant
Rosemary Berreen, BSW N.S.W.

School of Social Work

Professor of Social Work and Head of School
Robert John Lawrence, BA DipSocSc Adel., MA Oxon., PhD A.N.U.

Senior Lecturers
Robert U. Doyle, BA St Francis Xavier U., MSW Dal., PhD Tor.
Gwendoline Audrey Rennison, MA Camb., CertSocSci&Admin L.S.E.

Lecturers
Shirley Jessie Barnes, BA DipSocWk Syd.
Winsome Claire Bundey, BA N.S.W., DipSocStud Syd.
Charles Maxwell Ross Cornel, BA BSocStud Qld.
Brian Anthony English, BSW N.S.W.
June Huntington, BA Lond.
Margaret Teresa Lewis, BSocStud Qld., MSW N.S.W.
Elizabeth Jane Lloyd, BA DipSocWk W.Aust., MSW N.S.W.
Erkan Ongel, BS Ankara, MSW PhD Pitt.
Pamela Marjorie Thomas, BA DipSocStud Syd., MS Col.
Anthony John Toohey, BSW Qld.
Christopher John Williams, BA Camb., DipSA Manc.
Faculty Information

Faculty of Professional Studies
Enrolment Procedures*

Preliminary Enrolment

Industrial Arts Course
Before proceeding on vacation, students are required to attend the Department's Office to complete their 1977 programs.

Draft enrolment forms and programs must be lodged with the Department no later than 14 January 1977. Students who fail to do this will be required to attend one of the late enrolment sessions.

Science (Education) Course
Before the end of Session 2, each student must obtain his or her Re-enrolment Form and Program Form (SED 77) plus available timetables from the School of Education's Office (Room 41, Building M, Western Grounds Area).

After notification of the annual examination results each student should complete as far as possible the above-mentioned forms and lodge them at the School of Education's Office no later than 21 January 1977. Students whose Re-enrolment Form and Program Form are not received by 21 January 1977 will have to enrol at a late re-enrolment period and the appropriate late fee will be charged.

Advice regarding the completion of these forms will be available on Tuesday 18 and Wednesday 19 January 1977 at the School of Education. Students should have their proposed programs and timetables checked during this period and before lodging them at the abovementioned Office.

Social Work Course
Before the end of Session 2 1976, each student must obtain his or her personal Enrolment Form and instruction sheet from the School. After notification of the annual examination results, the student should forward the Enrolment Form completed as far as possible, to the School of Social Work not later than Friday 14 January 1977. Students who fail to lodge their Enrolment Forms before Friday 14 January 1977 will be required to attend one of the late enrolment sessions.

Health Administration Course
Re-enrolment forms will be posted to students by the School at the end of Session 2 1976. External students should re-enrol by post after they have had notification of annual examination results. Students who intend to enrol as internal students should get in touch with the School about their proposed program during January and bring their Enrolment Forms with them when enrolling.

*As a result of a decision by the Commonwealth Government, no tuition fees are charged in 1977.
Enrolment Timetable
Science (Education)

Students will be re-enrolled in Unisearch House as follows:

- Year 2: Wednesday 2 March, 9.30 am to 12.30 pm
- Year 3 & Year 4: Tuesday 1 March, 9.30 am to 12.30 pm

Industrial Arts Course

Students in the BSc or BSc(IndArts) DipEd degree course in Industrial Arts should attend Hut 34, Western Grounds Area, for re-enrolment as follows:

1. All re-enrolling students with a standard full-time program, as shown in the handbook, and all part-time programs.
   - Wednesday 2 March, 2.00 pm to 4.30 pm
   - Wednesday 2 March, 6.00 pm to 7.00 pm

2. All re-enrolling students with 'broken' or non-standard programs.
   - Wednesday 2 March, 10.00 am to 12.30 pm

Social Work Course

Students in the Bachelor of Social Work degree course should attend for re-enrolment at the School of Social Work, in accordance with the following timetable:

- Year 2:
  - Surnames A to K: Tuesday 1 March, 9.30 am to 12.30 pm, 2.00 pm to 5.00 pm
  - Surnames L to Z: Wednesday 2 March, 9.30 am to 12.30 pm, 2.00 pm to 5.00 pm

- Year 3:
  - Surnames A to K: Wednesday 2 March, 9.30 am to 12.30 pm, 2.00 pm to 5.00 pm
  - Surnames L to Z: Thursday 3 March, 9.30 am to 12.30 pm, 2.00 pm to 5.00 pm

- Year 4:
  - Surnames A to J: Thursday 3 March, 9.30 am to 12.30 pm, 2.00 pm to 5.00 pm
  - Surnames K to Z: Thursday 3 March, 9.30 am to 12.30 pm, 2.00 pm to 5.00 pm

New Students with Advanced Standing

Friday 4 March, 9.30 am to 12.30 pm

Health Administration

Full-time Course

Students will be re-enrolled in Room G37A, the Chancellery (South Wing) on Friday 4 March at 2.00 pm.

Geography Subjects

Students enrolling or re-enrolling in Geography subjects are to attend Hut 7 on one of the following dates:

- Monday 28 February:
  - 10.00 am to 12.00 pm
  - 2.00 pm to 4.00 pm

- Wednesday 2 March:
  - 10.00 am to 12.00 pm
  - 2.00 pm to 4.00 pm
  - 6.00 pm to 8.00 pm

- Friday 4 March:
  - 10.00 am to 12.00 pm
  - 2.00 pm to 4.00 pm

in order to obtain class admission cards and to be allocated places in tutorials and laboratories.

General Studies

Students enrolling in general studies electives after completing enrolment in their own Faculty and BEFORE GOING TO THE CASHIER, should proceed to the General Studies enrolment centre in Unisearch House where they will obtain places in electives, complete class admission cards and finalize enrolment forms.

Enrolment Centre

- Industrial Arts: Hut 34, Western Grounds Area (Northern end)
- Social Work: School of Social Work
- Science (Education): Unisearch House 221 Anzac Parade (across from Main Campus)
- Health Administration: Room G37A, the Chancellery

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.
Faculty Name

Some years ago the original Board of Vocational Studies was restructured so that its functions and the composition of its membership became those of a faculty. It was re-named in 1974 the Board of Professional Studies and in 1975 the Faculty of Professional Studies. It should be noted, therefore, that any statement in this handbook referring to 'the Board of Vocational Studies' or 'the Board of Professional Studies' now applies to the Faculty of Professional Studies.

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 Frankl

Physical Sciences Librarian

Janine Schmidt

Undergraduate Librarian

Pat Howard

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 or BScEd 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, 'Catalyst', 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.

Industrial Arts Society

The Industrial Arts Society aims at providing opportunities for students to meet staff and fellow students through both social functions and educational activities such as films, lectures, seminars and visits to promote awareness of the opportunities available in the field of Industrial Arts.

Membership is open to all students of the Department of Industrial Arts including graduate students. The Annual General Meeting is held in March. Further details regarding membership and activities may be obtained by contacting the Secretary of the Society, C/- Department of Industrial Arts, Western Grounds Area.

Student Associations

Appropriate Faculty Associations are open to students in the various courses. Full details are available in the relevant Faculty handbooks, the following list merely indicating the range.

The Commerce Society; The Arts Faculty Society; Dramsoc; The Historical Society; The Politics Club; The French Society; Socratic Society; The Julian Society.
Professional Studies

Financial Assistance to Students

The scholarships and prizes listed below are available to students whose courses are listed in this handbook.

A similarly oriented list appears in the General Information section of each of the faculty handbooks.

The complete list of University scholarships and prizes appears in the General Information section of the Calendar.

Scholarships

Undergraduate Scholarships

As well as the assistance mentioned earlier in this handbook see General Information: Financial Assistance to Students, there are a 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.

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bursary Endowment Board*</td>
<td>$300 pa if living at home;</td>
<td>7 years</td>
<td>Merit in HSC and total family income not exceeding $4000.</td>
</tr>
<tr>
<td></td>
<td>$400 pa if living away from home</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sam Cracknell Memorial</td>
<td>$1000 to $1500 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 either directly or administratively; and financial need.</td>
</tr>
<tr>
<td>Air Force Association Memorial Scholarship</td>
<td>$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>
</tbody>
</table>

*Apply to the Secretary, Bursary Endowment Board, Box 7077, GPO, Sydney 2001 immediately after sitting for HSC.
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 exceptions 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.

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</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>Australian Government (Research Awards)</td>
<td>Living allowance of $4000 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>Australian Government (Course Awards)</td>
<td>1-2 years; minimum duration of course</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 American Educational Foundation</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. Graduate applications close 31 December. Other applications by mid-November.</td>
</tr>
<tr>
<td>Travel Grant*</td>
<td></td>
<td></td>
<td>Applicants must be female graduates from any accredited Australian or overseas university.</td>
</tr>
<tr>
<td>Australian Federation of University Women</td>
<td></td>
<td></td>
<td>Applicants must be: 1. University staff on study leave. Applications close with Registrar by 30 November. For visits to commence during ensuing financial year 1 April to 31 March. 2. Graduate research workers holding research grants. Applications close with Registrar by 28 February for visits to commence during ensuing 1 April to 31 March.</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></td>
</tr>
</tbody>
</table>
### 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><strong>Canadian Pacific Airlines Award for Travel to Canada for University Graduates</strong></td>
<td>One free economy class return flight a year to Canada</td>
<td></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><strong>Commonwealth Scholarship and Fellowship Plan</strong></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><strong>General Motors-Holdens Research Fellowship</strong></td>
<td>Living allowance and other allowances</td>
<td>Maximum of 3 years</td>
<td>Graduates qualified to undertake research program for Masters or PhD degree.</td>
</tr>
<tr>
<td><strong>Gowrie Graduate Research Travelling Scholarship</strong></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><em><em>Harkness Fellowships of the Commonwealth Fund of New York</em>&quot;</em>*</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><strong>IBM Graduate Scholarship Plan</strong></td>
<td>A maximum of $1200 pa</td>
<td>A maximum of 2 years for a degree of Master and 4 years for a PhD</td>
<td>Graduates must already hold a scholarship, such as an Australian Government Postgraduate Research Award and be studying computer science or its applications. Applications close with Registrar by 30 November.</td>
</tr>
<tr>
<td><strong>Frank Knox Memorial Fellowships at Harvard University</strong></td>
<td>Stipend of $3400 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>

*Application forms must be obtained from the Australian representative of the Fund, Mr L. T. Hinde, Reserve Bank of Australia, Box 3647, 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>Approximately £2240 stg pa for married fellow and wife. Approximately £1760 stg pa in other cases plus travelling costs</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.</td>
</tr>
<tr>
<td>The Rhodes Scholarship**</td>
<td>£1850 stg pa</td>
<td>2 years, may be extended for a third year</td>
<td>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.</td>
</tr>
<tr>
<td>Rothmans Fellowships Award‡</td>
<td>$12,000 pa</td>
<td>Up to 3 years</td>
<td>The field of study is unrestricted. Applications close early September each year.</td>
</tr>
</tbody>
</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>Health Commission of New South Wales and the 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>

†Applications to the Secretary, The Nuffield Foundation Australian Advisory Committee, Chemistry Laboratory, Barry Building, University of Melbourne, Parkville, Victoria 3052.

**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><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.</td>
</tr>
</tbody>
</table>

Graduate University Prizes

The following table summarizes the graduate prizes awarded by the University.

<table>
<thead>
<tr>
<th><strong>General</strong></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>The Thistlethwayte Memorial Prize</td>
<td>100.00</td>
<td>Best essay in the field of water — waste water treatment or water quality management, by MEngSc, MAppSc, ME, MSc student.</td>
</tr>
<tr>
<td><strong>School of Education</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New South Wales Institute for Educational Research</td>
<td>25.00</td>
<td>General proficiency in educational research.</td>
</tr>
<tr>
<td>New South Wales Department of Education</td>
<td>32.00</td>
<td>Outstanding ability in both academic studies and practice teaching.</td>
</tr>
</tbody>
</table>

**Applications to the Registrar.**
Course Outlines

The Faculty of Professional Studies comprises the Schools of Education, Health Administration, Librarianship and Social Work, as well as the Department of Industrial Arts. Undergraduate courses within the Faculty's responsibility include courses in mathematics education, science education, health administration, industrial arts and social work.

School of Education

The School of Education offers:

- two four-year courses in Mathematics Education and Science Education which both lead to the Degree of Bachelor of Science, Diploma in Education (BScDipEd)
- a four-year degree course leading to the Degree of Bachelor of Science (Education) (BSc(Ed)) *
- a one-year full-time course for graduates leading to the Diploma in Education (DipEd), see Graduate Study in this handbook
- graduate courses leading to the degrees of Master of Education (MEd) and Master of Counselling (Education) (MCouns(Ed)), see Graduate Study in this handbook.

The Mathematics Education Degree Course (407) and the Science Education Degree Course (408) are new courses and are being offered for the first time in 1977.

The Science Education Degree Course (408) supersedes the Bachelor of Science (Education) Degree Course (406).

Some students presently enrolled in the Bachelor of Science (Education) Degree Course may transfer to the new course with little difficulty. Those students not able to transfer to the new course can continue with the Bachelor of Science (Education) Degree Course until such students have graduated.

406
The Bachelor of Science (Education) Degree Course
BSc(Ed)

As this course is being replaced by the Science Education Course (408) no new students are enrolled in this course in 1977. Students already enrolled may continue in the existing course (406) until the completion of their degree.

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 of its relationship to society.

*Not available to new students in 1977.
Honours

The BSc(Ed) 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, 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.

406 Bachelor of Science (Education) —Full-time Course

Bachelor of Science (Education) BSc(Ed)

Note: In 1977 students may be enrolled in Years 2, 3 and 4 of the course, but not in Year 1. Year 1 students should enrol in 1977 in the BSc DipEd course in Mathematics Education (407) or Science Education (408).

Hours per week

Year 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.011 Biology of Mankind and</td>
<td>6</td>
</tr>
<tr>
<td>25.011 Geoscience I</td>
<td>12</td>
</tr>
<tr>
<td>Four other science units</td>
<td></td>
</tr>
<tr>
<td>58.512 Introduction to Education</td>
<td>2½</td>
</tr>
<tr>
<td></td>
<td>20½</td>
</tr>
</tbody>
</table>

Year 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Three Science units</td>
<td>9</td>
</tr>
<tr>
<td>58.513 Education IA</td>
<td>4</td>
</tr>
<tr>
<td>58.523 Education IB</td>
<td>5</td>
</tr>
<tr>
<td>58.593 School Experience I</td>
<td>2</td>
</tr>
<tr>
<td>62.001 History and Philosophy of Science I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>23</td>
</tr>
</tbody>
</table>

Year 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two Science units</td>
<td>6</td>
</tr>
<tr>
<td>58.514 Education IIA</td>
<td>4</td>
</tr>
<tr>
<td>58.524 Education IIB</td>
<td>5</td>
</tr>
<tr>
<td>58.554 Research seminar and thesis†</td>
<td>2</td>
</tr>
<tr>
<td>58.594 School Experience II</td>
<td>5</td>
</tr>
<tr>
<td>52.002 History and Philosophy of Science II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>25</td>
</tr>
</tbody>
</table>

† Honours students only.
### List of Science Subjects

#### Physics Area

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.012</td>
<td>Thermal Physics and Mechanics</td>
</tr>
<tr>
<td>1.022</td>
<td>Electromagnetism and Modern Physics</td>
</tr>
<tr>
<td>1.032</td>
<td>Laboratory</td>
</tr>
<tr>
<td>1.912</td>
<td>Geometrical Optics (½)</td>
</tr>
<tr>
<td>1.922</td>
<td>Electronics (½)</td>
</tr>
<tr>
<td>1.932</td>
<td>Introduction to Solid State (½)</td>
</tr>
<tr>
<td>1.013</td>
<td>Quantum Mechanics and Nuclear Physics</td>
</tr>
<tr>
<td>1.023</td>
<td>Statistical Mechanics and Solid State</td>
</tr>
<tr>
<td>1.033</td>
<td>Electromagnetic Fields and Physical Optics</td>
</tr>
<tr>
<td>1.043</td>
<td>Experimental Physics</td>
</tr>
<tr>
<td>1.133</td>
<td>Electronics</td>
</tr>
<tr>
<td>1.143</td>
<td>Biophysics (½)</td>
</tr>
<tr>
<td>1.153</td>
<td>Biophysical Techniques (½)</td>
</tr>
<tr>
<td>1.163</td>
<td>Astrophysics (½)</td>
</tr>
<tr>
<td>1.173</td>
<td>Conceptual Framework of Physics (½)</td>
</tr>
</tbody>
</table>

#### Chemistry Area

**Level II Units**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.002A</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>2.002B</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>2.002D</td>
<td>Analytical Chemistry</td>
</tr>
<tr>
<td>2.042C</td>
<td>Inorganic Chemistry</td>
</tr>
</tbody>
</table>

**Level II/III Units**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.003E</td>
<td>Nuclear &amp; Radiation Chemistry</td>
</tr>
<tr>
<td>2.003H</td>
<td>Molecular Spectroscopy &amp; Structure</td>
</tr>
<tr>
<td>2.003J</td>
<td>Fundamentals of Biological Chemistry</td>
</tr>
<tr>
<td>2.003K</td>
<td>Solid State Chemistry</td>
</tr>
<tr>
<td>2.013A</td>
<td>Introductory Quantum Chemistry</td>
</tr>
</tbody>
</table>

**Level III Units**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.003A</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>2.003B</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>2.003C</td>
<td>Inorganic Chemistry</td>
</tr>
<tr>
<td>2.003D</td>
<td>Instrumental Analysis</td>
</tr>
<tr>
<td>2.003L</td>
<td>Applied Organic Chemistry</td>
</tr>
<tr>
<td>2.003M</td>
<td>Organometallic Chemistry</td>
</tr>
<tr>
<td>2.013B</td>
<td>Synthesis of Complex Organic Molecules</td>
</tr>
<tr>
<td>2.013C</td>
<td>Advanced Inorganic Chemistry</td>
</tr>
<tr>
<td>2.013D</td>
<td>Advanced Analytical Chemistry</td>
</tr>
<tr>
<td>2.013L</td>
<td>Chemistry and Enzymology of Foods</td>
</tr>
<tr>
<td>2.013M</td>
<td>Thermochemistry</td>
</tr>
<tr>
<td>2.023A</td>
<td>Chemical Physics</td>
</tr>
<tr>
<td>2.023B</td>
<td>Natural Product Chemistry</td>
</tr>
<tr>
<td>2.023L</td>
<td>Biological and Agricultural Chemistry</td>
</tr>
<tr>
<td>2.033A</td>
<td>Physical Chemistry of Macromolecules</td>
</tr>
<tr>
<td>2.033L</td>
<td>Applied Organic Chemistry (double unit)</td>
</tr>
<tr>
<td>2.043A</td>
<td>Environmental Chemistry</td>
</tr>
<tr>
<td>2.043L</td>
<td>Chemistry and Enzymology of Foods (double unit)</td>
</tr>
<tr>
<td>2.053A</td>
<td>Chemical Kinetics and Reaction Mechanisms</td>
</tr>
<tr>
<td>2.053L</td>
<td>Biological and Agricultural Chemistry (double unit)</td>
</tr>
<tr>
<td>2.063A</td>
<td>Advanced Molecular Spectroscopy</td>
</tr>
</tbody>
</table>

**Note:**

Higher Physics units may also be selected.

### Biology Area

**Level II Units**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.012</td>
<td>General Ecology</td>
</tr>
<tr>
<td>41.101</td>
<td>Principles of Biochemistry</td>
</tr>
<tr>
<td>41.102A</td>
<td>Biochemistry of Macromolecules</td>
</tr>
<tr>
<td>41.102B</td>
<td>Physiological Chemistry</td>
</tr>
<tr>
<td>41.102C</td>
<td>Plant Biochemistry</td>
</tr>
<tr>
<td>41.111</td>
<td>Biochemical Control</td>
</tr>
<tr>
<td>43.101</td>
<td>Genetics</td>
</tr>
<tr>
<td>43.111</td>
<td>Flowering Plants</td>
</tr>
<tr>
<td>43.121</td>
<td>Plant Physiology</td>
</tr>
<tr>
<td>43.102</td>
<td>Advanced Genetics</td>
</tr>
<tr>
<td>43.112</td>
<td>Plant Taxonomy</td>
</tr>
<tr>
<td>43.122</td>
<td>Advanced Plant Physiology</td>
</tr>
<tr>
<td>43.132</td>
<td>Mycology Plant Pathology</td>
</tr>
<tr>
<td>43.142</td>
<td>Environmental Botany</td>
</tr>
<tr>
<td>43.152</td>
<td>Palaeoecology</td>
</tr>
<tr>
<td>44.101</td>
<td>Introductory Microbiology</td>
</tr>
<tr>
<td>44.102</td>
<td>General Microbiology</td>
</tr>
<tr>
<td>44.122</td>
<td>Immunology</td>
</tr>
<tr>
<td>45.101</td>
<td>Biometry</td>
</tr>
<tr>
<td>45.201</td>
<td>Invertebrate Zoology</td>
</tr>
<tr>
<td>45.301</td>
<td>Vertebrate Zoology</td>
</tr>
<tr>
<td>45.112</td>
<td>Marine Ecology</td>
</tr>
<tr>
<td>45.121</td>
<td>Evolutionary Theory</td>
</tr>
<tr>
<td>45.122</td>
<td>Animal Behaviour</td>
</tr>
<tr>
<td>45.132</td>
<td>Comparative and Environmental Physiology</td>
</tr>
<tr>
<td>45.142</td>
<td>Developmental and Reproductive Biology</td>
</tr>
<tr>
<td>45.302</td>
<td>Vertebrate Zoogeography</td>
</tr>
<tr>
<td>45.202</td>
<td>Advanced Invertebrate Zoology</td>
</tr>
<tr>
<td>45.402</td>
<td>Insect Structure and Classification</td>
</tr>
<tr>
<td>45.412</td>
<td>Insect Physiology</td>
</tr>
<tr>
<td>45.422</td>
<td>Applied Entomology</td>
</tr>
<tr>
<td>73.011A</td>
<td>Principles of Physiology*</td>
</tr>
</tbody>
</table>

**Mathematics Area**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.111A</td>
<td>Pure Mathematics II—Linear Algebra</td>
</tr>
<tr>
<td>10.111B</td>
<td>Pure Mathematics II—Analysis</td>
</tr>
<tr>
<td>10.211A</td>
<td>Applied Mathematics II—Mathematical Methods</td>
</tr>
<tr>
<td>10.331</td>
<td>Statistics SS</td>
</tr>
</tbody>
</table>

**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.

**Course Outlines**

**List of Science Subjects**

**Physics Area**

1.012 Thermal Physics and Mechanics
1.022 Electromagnetism and Modern Physics
1.032 Laboratory
1.912 Geometrical Optics (½)
1.922 Electronics (½)
1.932 Introduction to Solid State (½)
1.013 Quantum Mechanics and Nuclear Physics
1.023 Statistical Mechanics and Solid State
1.033 Electromagnetic Fields and Physical Optics
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)

**Chemistry Area**

**Level II Units**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.002A</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>2.002B</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>2.002D</td>
<td>Analytical Chemistry</td>
</tr>
<tr>
<td>2.042C</td>
<td>Inorganic Chemistry</td>
</tr>
</tbody>
</table>

**Level II/III Units**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.003E</td>
<td>Nuclear &amp; Radiation Chemistry</td>
</tr>
<tr>
<td>2.003H</td>
<td>Molecular Spectroscopy &amp; Structure</td>
</tr>
<tr>
<td>2.003J</td>
<td>Fundamentals of Biological Chemistry</td>
</tr>
<tr>
<td>2.003K</td>
<td>Solid State Chemistry</td>
</tr>
<tr>
<td>2.013A</td>
<td>Introductory Quantum Chemistry</td>
</tr>
</tbody>
</table>

**Level III Units**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.003A</td>
<td>Physical Chemistry</td>
</tr>
<tr>
<td>2.003B</td>
<td>Organic Chemistry</td>
</tr>
<tr>
<td>2.003C</td>
<td>Inorganic Chemistry</td>
</tr>
<tr>
<td>2.003D</td>
<td>Instrumental Analysis</td>
</tr>
<tr>
<td>2.003L</td>
<td>Applied Organic Chemistry</td>
</tr>
<tr>
<td>2.003M</td>
<td>Organometallic Chemistry</td>
</tr>
<tr>
<td>2.013B</td>
<td>Synthesis of Complex Organic Molecules</td>
</tr>
<tr>
<td>2.013C</td>
<td>Advanced Inorganic Chemistry</td>
</tr>
<tr>
<td>2.013D</td>
<td>Advanced Analytical Chemistry</td>
</tr>
<tr>
<td>2.013L</td>
<td>Chemistry and Enzymology of Foods</td>
</tr>
<tr>
<td>2.013M</td>
<td>Thermochemistry</td>
</tr>
<tr>
<td>2.023A</td>
<td>Chemical Physics</td>
</tr>
<tr>
<td>2.023B</td>
<td>Natural Product Chemistry</td>
</tr>
<tr>
<td>2.023L</td>
<td>Biological and Agricultural Chemistry</td>
</tr>
<tr>
<td>2.033A</td>
<td>Physical Chemistry of Macromolecules</td>
</tr>
<tr>
<td>2.033L</td>
<td>Applied Organic Chemistry (double unit)</td>
</tr>
<tr>
<td>2.043A</td>
<td>Environmental Chemistry</td>
</tr>
<tr>
<td>2.043L</td>
<td>Chemistry and Enzymology of Foods (double unit)</td>
</tr>
<tr>
<td>2.053A</td>
<td>Chemical Kinetics and Reaction Mechanisms</td>
</tr>
<tr>
<td>2.053L</td>
<td>Biological and Agricultural Chemistry (double unit)</td>
</tr>
<tr>
<td>2.063A</td>
<td>Advanced Molecular Spectroscopy</td>
</tr>
</tbody>
</table>

**Note:**

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.

**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
43.121 Plant Physiology
43.102 Advanced Genetics
43.112 Plant Taxonomy
43.122 Advanced Plant Physiology
43.132 Mycology Plant Pathology
43.142 Environmental Botany
43.152 Palaeoecology
44.101 Introductory Microbiology
44.102 General Microbiology
44.122 Immunology
45.101 Biometry
45.201 Invertebrate Zoology
45.301 Vertebrate Zoology
45.112 Marine Ecology
45.121 Evolutionary Theory
45.122 Animal Behaviour
45.132 Comparative and Environmental Physiology
45.142 Developmental and Reproductive Biology
45.302 Vertebrate Zoogeography
45.202 Advanced Invertebrate Zoology
45.402 Insect Structure and Classification
45.412 Insect Physiology
45.422 Applied Entomology
73.011A Principles of Physiology*

* Double unit, 6 hours per week for both sessions.

**Mathematics Area**

10.111A Pure Mathematics II—Linear Algebra
10.111B Pure Mathematics II—Analysis
10.211A Applied Mathematics II—Mathematical Methods
10.331 Statistics SS
Professional Studies

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 Palaeontology
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.

Honours and Pass Degree Requirements

The course is offered at both pass and honours levels. The pass course requires the successful completion of a four-year program. The honours course requires the successful completion of a five-year program, with the fifth year devoted to an approved honours program chosen from the following options: either Pure Mathematics, Applied Mathematics, Mathematical Statistics, Theoretical Mechanics, or Education.

Components of the Course

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

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:

A Not less than 8 units, nor more than 10 units selected from Level I. Not more than 2 Level I units may be taken in any discipline other than Mathematics.

B The following subjects or their higher equivalents shall be included:

- 10.001, 10.111A, 10.111B, 10.211A.

C Courses amounting to at least 2 full units chosen from:

- 10.111, 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.
D Not less than 2 units from the following:
10.211D, 10.212L, 10.212M, 10.331, 10.311A, 10.311B, 10.312A, 10.312B, 10.312C, 10.312D, 10.312E, 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.

E 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.

F 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).

G 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 |
| Mathematics Curriculum and Instruction | 58.533, 58.534 |
| School Experience | 58.593, 58.594 |
| Honours | 58.505 |

3. General Studies Component

A 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.

B 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 (397) or the Mathematics Education Course (407). In the second, third and fourth years a student must be enrolled in one of the Mathematics programs for the Course 407, 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 of 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.

Programs

The course taken by each 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>2 1/2</td>
</tr>
<tr>
<td>3</td>
<td>58.513</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>58.533</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>58.584</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>58.534</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>58.594</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>58.505†</td>
<td></td>
</tr>
</tbody>
</table>

*58.512 includes 14 hours of field work as school experience within the 2 1/2 hour per week allocation.
†58.505 is the honours year in education. It is a possible alternative to an honours year in mathematics.

2. General Studies Program

A 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.

B For students electing the Mathematics and Liberal Studies Program:

No specific General Studies subjects are required.
### 3. Mathematics Programs

#### 10.1 Mathematics and Science

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.001 or 10.011</td>
<td>10.11A or 10.121A</td>
<td>Choose 2 Level III Mathematics units from Table 2</td>
<td>Choose 2 Level III Mathematics units from Table 2</td>
<td>10.123 or 10.223 or 10.323 or 10.423</td>
</tr>
<tr>
<td>Choose 6 units from:</td>
<td>10.11B or 10.121B</td>
<td>Choose 2 or 3 units from:</td>
<td>Choose a further Level II or III Mathematics unit if needed to make up the required 8 units from:</td>
<td>or</td>
</tr>
<tr>
<td>Tables 1 and/or 2 and/or</td>
<td>10.21A or 10.221A</td>
<td>Table 1 and/or 2 and/or</td>
<td>Table 1 and/or 2 and/or</td>
<td>or</td>
</tr>
<tr>
<td>The BA course*† and/or</td>
<td>Choose 4 or 5 units from:</td>
<td>The BA course*† and/or</td>
<td>The BA course*† and/or</td>
<td>or</td>
</tr>
<tr>
<td>Table 3† for program 10.1</td>
<td>Tables 1 and/or 2 and/or</td>
<td>Table 3† for program 10.1</td>
<td>Table 3† for program 10.1</td>
<td>Table 3† for program 10.1</td>
</tr>
</tbody>
</table>

*The four-year program may include up to 5 units from the BA 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 all those in Economic History plus 15.062, 15.072, 15.263 and 15.273.

†Not more than 8 units that are not in Table 1 may be taken without the approval of the Director of Science Teachers' Courses.

#### 10.2 Mathematics and Liberal Studies

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.001 or 10.011</td>
<td>10.11A or 10.121A</td>
<td>Choose 2 Level III Mathematics units from Table 2</td>
<td>Choose 2 Level III Mathematics units from Table 2</td>
<td>10.123 or 10.223 or 10.323 or 10.423</td>
</tr>
<tr>
<td>Choose 4-6 units from:</td>
<td>10.11B or 10.121B</td>
<td>Choose 2 or 3 units from:</td>
<td>Choose 2 or 3 units from:</td>
<td>or</td>
</tr>
<tr>
<td>Tables 1† and/or 2 and/or</td>
<td>10.21A or 10.221A</td>
<td>Table 1 and/or 2 and/or</td>
<td>Table 1 and/or 2 and/or</td>
<td>or</td>
</tr>
<tr>
<td>The BA course* and/or 2.021</td>
<td>Choose 4 or 5 units from:</td>
<td>The BA course* and/or 2.021</td>
<td>The BA course* and/or 2.021</td>
<td>or</td>
</tr>
<tr>
<td>Tables 1† and/or 2 and/or</td>
<td>Tables 1† and/or 2 and/or</td>
<td>Table 3† for program 10.1</td>
<td>Table 3† for program 10.1</td>
<td>Table 3† for program 10.1</td>
</tr>
<tr>
<td>The BA course* and/or 2.021</td>
<td>The BA course* and/or 2.021</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

†Units in History and Philosophy of Science shall be those from the BA course.

*The four-year program shall include at least 6 units from the BA course offered by the following schools: Drama, Economics, English, French, Geography, German, History, History and Philosophy of Science, Philosophy, Political Science, Russian, Sociology, Spanish and Latin American Studies. Each Upper Level unit so offered by these Schools shall count as 1½ units. Upper Level units from the School of Economics are restricted to all those in Economic History plus 15.062, 15.072, 15.263 and 15.273.
The Science Education Degree Course
Bachelor of Science Diploma in Education BSc DipEd

The Science Education Course, leading to 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 (397) 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 (397) 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:

A There shall be ten units from Level I and these must come from the following subjects: 1.001 or 1.011, 2.001, 10.001 or 10.011 or 10.021, 17.011, 17.021, 25.011.

B Not less than four units from Level III.

C 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.

D 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.
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.

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.

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

### 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>
<td>4</td>
</tr>
<tr>
<td></td>
<td>58.523</td>
<td>5</td>
</tr>
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*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.

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### 3. Science Program (continued)

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#### 41/44 Microbiology and Biochemistry

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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
### 3. Science Program (continued)

#### Course Outlines

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### 3. Science Program (continued)

#### 44. Microbiology (General)

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#### 45.2 Zoology with Botany

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#### 73. Physiology —Single Major

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*The School of Physics has introduced new and revised Level II and Level III units. The School realises that some students presently enrolled will not have completed either all of the old Level II units, or all of the old Level III units. Some of the new units are sufficiently compatible to permit substitution of a new unit in a program requiring an old unit. Where this is not possible the old unit, indicated by an asterisk in the table above, will be provided for those students wishing to complete a set of Level II or Level III units.

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(=Oceanography Unit)

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*For footnotes, see overleaf*
### School of Chemistry (continued)

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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.

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*Offered only in the evening.
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† Terminating pass acceptable.

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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 six days in each case is a compulsory part of this course.

*** A geological survey camp of 10 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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† 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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* In exceptional circumstances a student may apply to the Head of School for variation of the prerequisite.

### School of Botany†

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For footnotes, see next page
### School of Botany

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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.

§ These units will alternate each year. 43.162 The Plant Kingdom is offered in 1977. If both units 43.112 and 43.162 are to be included in a three-year pass degree program, one should be completed in Year 2.

### School of Microbiology

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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 not taking Level II Biochemistry. This unit is not acceptable as a prerequisite for Level III Microbiology, except on the recommendation of the Head of School.
### 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 7 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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<th>Co-requisites</th>
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<td>62.012</td>
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School of History and Philosophy of Science (continued)

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School of Anatomy

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School of Physiology and Pharmacology

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<th>Co-requisites</th>
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<td>73.011A</td>
<td>Principles of Physiology</td>
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<td>F</td>
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<td>2.121, 2.131, 10.001 or 10.011 or 10.021, 17.011, 17.021</td>
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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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Table 2

Units available in the Mathematics Education Course (407)

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For footnotes, see overleaf
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### Pure Mathematics

#### Pure Mathematics Level II

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#### Higher Pure Mathematics Level III†

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<td>III</td>
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<td>2</td>
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<td>10.121C</td>
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<td>III</td>
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<td>S2</td>
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<td>10.111B, 10.1111, 10.211A</td>
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<td>10.1124</td>
<td>Combinatorial Topology</td>
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<tr>
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<td>½</td>
<td>S1</td>
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<td>10.1126</td>
<td>Partial Differential Equations</td>
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**Higher Pure Mathematics Level III**

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<th>Level</th>
<th>Unit</th>
<th>When</th>
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<th>Co-requisite(s)††</th>
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<tr>
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<td>Algebra</td>
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<tr>
<td>10.122B</td>
<td>Integration and Functional Analysis</td>
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<td>Topology and Differential Geometry</td>
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<td>10.121A, 10.121B</td>
<td>10.1124, 10.112C</td>
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<td>10.112C</td>
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</tbody>
</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.

2. Students majoring in Physics who wish to take Higher Pure Mathematics II should attempt 10.121A, 10.121B and either 10.221A or 10.211A.

3. Students aiming at Honours in Pure Mathematics must take 10.121A, B and C and either 10.221A or 10.211A.

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

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

** 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.

*** Students will not normally be permitted to attempt a Level III Pure Mathematics unit unless they have completed at least one Level II unit from 10.111A, 10.111B and 10.211A and are concurrently attempting the remaining units of these three units.

‡‡ May not be offered in 1977.
### School of Mathematics (continued)

<table>
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<th>No.</th>
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<th>Level</th>
<th>Unit Value</th>
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<th>Hpw</th>
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<th>Co-requisites††</th>
<th>Excluded**</th>
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#### Applied Mathematics

**Applied Mathematics Level II**

| Course | Title | Level | Unit Value | When Offered | Hpw | Prerequisites†† |
|--------|-------|-------|------------|--------------|-----|----------------|---------------|
| 10.211A | Mathematical Methods | II | 1 | F | 2 | 10.001 | | 10.221A |
| 10.211D | Introduction to Optimization Theory and its Applications | II | 1 | F | 2 | 10.001 | | 10.221D |

**Higher Applied Mathematics Level II**

| Course | Title | Level | Unit Value | When Offered | Hpw | Prerequisites†† |
|--------|-------|-------|------------|--------------|-----|----------------|---------------|
| 10.221A | Mathematical Methods | II | 1 | F | 2½ | 10.011 or 10.001 Dist.* | | 10.211A |
| 10.221D | Introduction to Optimization Theory and its Applications | II | 1 | F | 2 | 10.011 or 10.001 Dist.* | | 10.211D |

**Applied Mathematics Level III**

| Course | Title | Level | Unit Value | When Offered | Hpw | Prerequisites†† |
|--------|-------|-------|------------|--------------|-----|----------------|---------------|
| 10.212A | Numerical Analysis | III | 1 | F | 2 | 10.211A, 10.111A | | 10.222A |
| 10.212L | Optimization Methods | III | 1 | F | 2 | 10.211A, 10.111A, 10.211B | 10.211B | 10.222L |
| 10.212M | Optimal Control Theory | III | 1 | F | 2 | 10.211A, 10.111A, 10.111B | | 10.222M |

**Higher Applied Mathematics Level III**

| Course | Title | Level | Unit Value | When Offered | Hpw | Prerequisites†† |
|--------|-------|-------|------------|--------------|-----|----------------|---------------|
| 10.222A | Numerical Analysis | III | 1 | F | 2 | 10.221A or 10.211A Dist.*, 10.121A or 10.111A Dist.* | | 10.212A |
| 10.222C | Maxwell's Equations and Special Relativity | III | 1 | F | 2 | 10.221A or 10.211A Dist.*, 10.121B or 10.111B Dist.* | 1.011 | 1.033 |
| 10.222F | Quantum Mechanics | III | 1 | F | 2 | 10.221A or 10.211A Dist.*, 10.121A or 10.111A Dist.*, 10.121B or 10.111B Dist.* | 1.001 | 1.013 |
| 10.222L | Optimization Methods | III | 1 | F | 2 | 10.221A or 10.211A Dist.*, 10.121A or 10.111A Dist.*, 10.121B or 10.111B Dist.* | 1.011 | 1.021D |
| 10.222M | Optimal Control Theory | III | 1 | F | 2 | 10.221A or 10.211A Dist.*, 10.121A or 10.111A Dist.*, 10.121B or 10.111B Dist.* | | 10.222M |

†† 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.
‡ Effective from 1978 only. Students enroiling in 10.212L (10.222L) in 1977 should not enrol in 10.211D (10.221D).
### School of Mathematics (continued)

#### Statistics

**Theory of Statistics Level II**

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<th>Unit</th>
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<th>Co-requisites†</th>
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<td>10.311A</td>
<td>Probability and Random Variables</td>
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<td>S1</td>
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<tr>
<td>10.311B</td>
<td>Basic Inference</td>
<td>II/III</td>
<td>1½</td>
<td>S2</td>
<td>7</td>
<td>10.311A</td>
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<tr>
<td>10.331</td>
<td>Statistics SS</td>
<td>II</td>
<td>1</td>
<td>F</td>
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<td>10.001 or 10.021 Cr</td>
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**Higher Theory of Statistics Level II**

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<th>Co-requisites†</th>
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<td>10.321A</td>
<td>Probability and Random Variables</td>
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**Theory of Statistics Level III**

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<td>10.312A</td>
<td>Probability and Stochastic Processes</td>
<td>III</td>
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<td>S1</td>
<td>4</td>
<td>10.311A, 10.111A, 10.111B, 10.211A</td>
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<tr>
<td>10.312B</td>
<td>Experimental Design (Applications) and Sampling</td>
<td>III</td>
<td>1</td>
<td>S2</td>
<td>4</td>
<td>10.311B or 10.331 (Nor. Cr)</td>
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<td>10.322B</td>
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<td>Experimental Design (Theory)</td>
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<td>S1</td>
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<td>10.311B, 10.111A, 10.111B, 10.211A</td>
<td>10.312B†</td>
<td>10.322C</td>
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<td>10.312D</td>
<td>Probability Theory</td>
<td>III</td>
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<td>S2</td>
<td>4</td>
<td>10.311A, 10.111A, 10.111B, 10.211A</td>
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<td>10.322D</td>
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<tr>
<td>10.312E</td>
<td>Statistical Inference</td>
<td>III</td>
<td>1</td>
<td>S2</td>
<td>4</td>
<td>10.311B, 10.111A, 10.111B, 10.211A</td>
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**Higher Theory of Statistics Level III**

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<th>Unit</th>
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<th>Co-requisites†</th>
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<td>Probability and Stochastic Processes</td>
<td>III</td>
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<td>S1</td>
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<td>10.322B</td>
<td>Experimental Design (Applications) and Sampling</td>
<td>III</td>
<td>1</td>
<td>S2</td>
<td>4½</td>
<td>10.321B, 10.111A, 10.111B, 10.211A</td>
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<td>10.322C</td>
<td>Experimental Design (Theory)</td>
<td>III</td>
<td>1</td>
<td>S1</td>
<td>4½</td>
<td>10.321B, 10.111A, 10.111B, 10.211A</td>
<td>10.322B†</td>
<td>10.322C</td>
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*For footnotes, see next page*
### School of Mathematics (continued)

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<th>Unit</th>
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<td>10.322E</td>
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<td>S2</td>
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<td>10.321B, 10.111A, 10.111B, 10.211A</td>
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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.

** 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).

† Plus any two Level III Pure Mathematics, Applied Mathematics, or Theoretical Mechanics units. It is sufficient to take 10.312B (10.322B) in the same year.

### Theoretical and Applied Mechanics

#### Theoretical Mechanics Level II

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<th>Unit</th>
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<th>Co-requisites††</th>
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<td>10.411A</td>
<td>Hydrodynamics</td>
<td>II/III</td>
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<td>S2</td>
<td>4</td>
<td>10.001</td>
<td>10.411B</td>
<td>10.421A</td>
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<tr>
<td>10.411B</td>
<td>Principles of Physical Mechanics</td>
<td>II</td>
<td>1</td>
<td>S1†</td>
<td>4</td>
<td>10.001, 1.001 or 10.041 or 5.010</td>
<td>10.211A, 10.111B</td>
<td>10.421B</td>
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#### Higher Theoretical Mechanics Level II

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<th>Co-requisites††</th>
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<td>Hydrodynamics</td>
<td>II/III</td>
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<td>S2</td>
<td>4</td>
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<td>10.421B</td>
<td>10.411A</td>
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<tr>
<td>10.421B</td>
<td>Principles of Theoretical Mechanics</td>
<td>II</td>
<td>1</td>
<td>S1†</td>
<td>4</td>
<td>10.011 or 10.001 Dist.*, 1.001 or 10.041 or 5.010</td>
<td>10.221A, 10.111B</td>
<td>10.411B</td>
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#### Theoretical Mechanics Level III

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<td>III</td>
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<td>F</td>
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<td>1.001, 10.211A or 10.031</td>
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<td>10.412B</td>
<td>Continuum Mechanics</td>
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<td>1</td>
<td>F</td>
<td>2</td>
<td>10.211A, 10.111A, 10.111B or 1.012 or 1.913</td>
<td>10.422B</td>
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<tr>
<td>10.412D</td>
<td>Mathematical Methods</td>
<td>III</td>
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<td>F</td>
<td>2</td>
<td>10.211A, 10.111A, 10.111B</td>
<td>10.422D</td>
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#### Higher Theoretical Mechanics Level III

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<th>Prerequisites††</th>
<th>Co-requisites††</th>
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<td>10.422A</td>
<td>Fluid Dynamics</td>
<td>III</td>
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<td>S2</td>
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<td>10.421A or 10.411A Dist.*</td>
<td>10.422B</td>
<td>10.412B</td>
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<tr>
<td>10.422B</td>
<td>Mechanics of Solids</td>
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<td>S1†</td>
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<td>10.211A, 10.111A, 10.111B, 10.421B or 10.411B Dist.* or 1.012</td>
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<td>10.422D</td>
<td>Mathematical Methods</td>
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<td>10.412D</td>
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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.

† The evening course for 10.411B runs at 2 hours per week throughout the year.

* 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.
# Course Outlines

## School of Psychology

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Level</th>
<th>Unit Value</th>
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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 major in Psychology in the science and mathematics course is minimally satisfied by the completion of 9 units value of Psychology units which have included 12.001, 12.052, 12.062, 12.152 and four Level III units.
2. A double major in Psychology in the science and mathematics course adds an additional four Level III units to the four required for single major. The double major is available to students in the three year program and the four year program.
3. Not all Level III units will necessarily be offered in each year.

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### School of Geography

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<td>$\frac{1}{2}$</td>
<td>S2</td>
<td>2</td>
<td></td>
<td>52.153</td>
<td></td>
<td></td>
</tr>
<tr>
<td>52.403</td>
<td>Model Theory</td>
<td>II</td>
<td>$\frac{1}{2}$</td>
<td>S2</td>
<td>2</td>
<td></td>
<td>52.323 or 10.1123</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| 52.413 | Reading Option                           | II    | $\frac{1}{2}$ | S1     | 2             |     | Satisfactory performance or 2
in Level II units |               |          |
| 52.463 | Introduction to Transformational Grammar Grammar | II | $\frac{1}{2}$ | S1     | 2             |     | Any Level I unit                       |               |          |
| 52.473 | Semantics of Natural Language            | II    | $\frac{1}{2}$ | S2     | 2             |     | 52.463 or 52.153                       |               |          |
| 52.483 | Plato's Theory of Forms                  | II    | $\frac{1}{2}$ | S1     | 2             |     | Level II status in Philosophy**         |               |          |
| 52.493 | Existentialism                           | II    | $\frac{1}{2}$ | S1     | 2             |     | Level II status in Philosophy**         |               |          |
| 52.503 | Utopias                                  | II    | $\frac{1}{2}$ | S1     | 1$\frac{1}{2}$ | 2 | Level II status in Philosophy** and 52.182 or 52.203 |               |          |
| 52.513 | Social and Political Philosophy          | II    | $\frac{1}{2}$ | S1     | 2             |     | Level II status in Philosophy** and 52.182 |               |          |
| 52.523 | Classical Ethical Theories               | II    | $\frac{1}{2}$ | S1     | 2             |     | Level II status in Philosophy**         |               |          |
| 52.533 | Contemporary Ethics                     | II    | $\frac{1}{2}$ | S2     | 2             |     | 52.523*                                 |               |          |
| 52.543 | The Philosophy of Love                   | II    | $\frac{1}{2}$ | S1     | 2             |     | 52.163 or 52.173 or 52.263             |               |          |
| 52.423 | Seminar A                               | II    | $\frac{1}{2}$ | S2     | 2             |     | Level II units (Cr)                    |               |          |
| 52.433 | Seminar B                               | II    | $\frac{1}{2}$ | S1     | 2             |     | Level II units (Cr)                    |               |          |

N.B. 52.162, 52.172 and 52.182 will be timetabled at the same time.

* In exceptional circumstances a student may apply to the School for variation of the prerequisite or co-requisite.

** Level II status in Philosophy consists in (1) being in second or later year of university study, and (2) having taken and passed two Level I Philosophy half-units in the same session. This prerequisite may be waived in certain cases by the School.
<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Level</th>
<th>Unit Value</th>
<th>When Offered</th>
<th>How</th>
<th>Prerequisites</th>
<th>Co-requisites</th>
<th>Specific Programs</th>
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<tbody>
<tr>
<td>2.021</td>
<td>Chemistry IE</td>
<td>I</td>
<td>1</td>
<td>S1</td>
<td>6</td>
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<td>10.041</td>
<td>10.041</td>
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<tr>
<td>3.111</td>
<td>Chemical Engineering Principles 1</td>
<td>II</td>
<td>1</td>
<td>F</td>
<td>2S1</td>
<td>3S2</td>
<td></td>
<td>10.1</td>
</tr>
<tr>
<td>3.121</td>
<td>Chemical Engineering Principles 2</td>
<td>III</td>
<td>2</td>
<td>F</td>
<td>11S1</td>
<td>3S2</td>
<td>3.111</td>
<td>10.1</td>
</tr>
<tr>
<td>6.010</td>
<td>Electrical Engineering</td>
<td>I</td>
<td>1</td>
<td>S2</td>
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<td>10.1</td>
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<tr>
<td>14.501</td>
<td>Accounting and Financial Management I</td>
<td>I</td>
<td>1</td>
<td>S1</td>
<td>4</td>
<td></td>
<td></td>
<td>10.1</td>
</tr>
<tr>
<td>14.511</td>
<td>Accounting and Financial Management II</td>
<td>I</td>
<td>1</td>
<td>S2</td>
<td>4</td>
<td></td>
<td>14.501</td>
<td>10.1</td>
</tr>
<tr>
<td>14.522</td>
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<td>II</td>
<td>1</td>
<td>S1</td>
<td>4</td>
<td></td>
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<td>10.1</td>
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<tr>
<td>14.542</td>
<td>Accounting and Financial Management IIB</td>
<td>II</td>
<td>1</td>
<td>S2</td>
<td>4</td>
<td></td>
<td>14.511</td>
<td>10.1</td>
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<tr>
<td>14.602</td>
<td>Information Systems IIA</td>
<td>II</td>
<td>1</td>
<td>S1</td>
<td>3</td>
<td></td>
<td></td>
<td>10.1</td>
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<tr>
<td>14.603</td>
<td>Information Systems IIB</td>
<td>II</td>
<td>1</td>
<td>S2</td>
<td>3</td>
<td></td>
<td>14.602</td>
<td>10.1</td>
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<td>14.613</td>
<td>Business Finance II</td>
<td>II</td>
<td>1</td>
<td>S2</td>
<td>3</td>
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<td>15.002</td>
<td>Economics IIA</td>
<td>II</td>
<td>1</td>
<td>S1</td>
<td>4</td>
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<td>15.011</td>
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<td>15.022</td>
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<td>II</td>
<td>1</td>
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<td>15.002</td>
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<tr>
<td>15.042</td>
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<td>II</td>
<td>1</td>
<td>S2</td>
<td>4</td>
<td></td>
<td>15.011</td>
<td>10.1</td>
</tr>
</tbody>
</table>

For Table 4, see overleaf
Table 4

Level IV Science units offered in the Science Education Course (408)

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</th>
<th>Number of Level III Units Required</th>
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<tbody>
<tr>
<td>1.114</td>
<td>Quantum Mechanics</td>
<td>IV</td>
<td>1</td>
<td>S1</td>
<td>Program 1.5 or 1.1 and 10.412D</td>
<td>6</td>
</tr>
<tr>
<td>1.124</td>
<td>Statistical Mechanics</td>
<td>IV</td>
<td>1</td>
<td>F</td>
<td>Program 1.5 or 1.1 and 10.412D</td>
<td>6</td>
</tr>
<tr>
<td>1.134</td>
<td>Solid State</td>
<td>IV</td>
<td>1</td>
<td>F</td>
<td>Program 1.5 or 1.1 and 10.412D</td>
<td>6</td>
</tr>
<tr>
<td>1.144</td>
<td>Atomic and Nuclear Physics</td>
<td>IV</td>
<td>1</td>
<td>S2</td>
<td>Program 1.5 or 1.1 and 10.412D</td>
<td>6</td>
</tr>
<tr>
<td>1.154</td>
<td>Projects</td>
<td>IV</td>
<td>F</td>
<td></td>
<td>Program 1.1</td>
<td>6</td>
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<tr>
<td>1.514</td>
<td>Plasma Theory</td>
<td>IV</td>
<td>1</td>
<td>S1</td>
<td>1.513</td>
<td></td>
</tr>
<tr>
<td>1.524</td>
<td>Waves in Continuous Media</td>
<td>IV</td>
<td>1</td>
<td>S2</td>
<td>Program 1.5</td>
<td>6</td>
</tr>
<tr>
<td>1.534</td>
<td>Quantum Theory of Solids</td>
<td>IV</td>
<td>1</td>
<td>S2</td>
<td>1.134</td>
<td></td>
</tr>
<tr>
<td>1.544</td>
<td>Projects</td>
<td>IV</td>
<td>1</td>
<td>F</td>
<td>Program 1.5</td>
<td>6</td>
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<tr>
<td>2.004</td>
<td>Chemistry IV</td>
<td>IV</td>
<td>10</td>
<td>F</td>
<td>Program 2.1</td>
<td>7</td>
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<tr>
<td>25.004</td>
<td>Geology IV</td>
<td>IV</td>
<td>10</td>
<td>F</td>
<td>Program 25.1</td>
<td>8</td>
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<tr>
<td>41.103</td>
<td>Biochemistry IV</td>
<td>IV</td>
<td>10</td>
<td>F</td>
<td>Program 41.1</td>
<td>7</td>
</tr>
<tr>
<td>43.103</td>
<td>Botany</td>
<td>IV</td>
<td>10</td>
<td>F</td>
<td>Program 43.1 or 43.2</td>
<td>7</td>
</tr>
<tr>
<td>44.513</td>
<td>General Microbiology</td>
<td>IV</td>
<td>2</td>
<td>S1</td>
<td>Program 44.1, 44.4 or 41/44</td>
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<tr>
<td>44.523</td>
<td>Applied Microbiology</td>
<td>IV</td>
<td>2</td>
<td>S1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>44.533</td>
<td>Immunology</td>
<td>IV</td>
<td>2</td>
<td>S1</td>
<td></td>
<td></td>
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<tr>
<td>44.543</td>
<td>Virology</td>
<td>IV</td>
<td>2</td>
<td>S1</td>
<td>Program 44.1, 44.4 or 41/44</td>
<td>7</td>
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<tr>
<td>44.553</td>
<td>Electron Microscopy</td>
<td>IV</td>
<td>2</td>
<td>F</td>
<td>Program 44.1, 44.4 or 41/44</td>
<td>7</td>
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<tr>
<td>44.563</td>
<td>Microbiology Project I</td>
<td>IV</td>
<td>2</td>
<td>F</td>
<td>Program 44.1, 44.4 or 41/44</td>
<td>7</td>
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<tr>
<td>44.573</td>
<td>Microbiology Project II</td>
<td>IV</td>
<td>4</td>
<td>F</td>
<td>Program 44.1, 44.4 or 41/44</td>
<td>7</td>
</tr>
<tr>
<td>44.583</td>
<td>Microbiology Project III</td>
<td>IV</td>
<td>6</td>
<td>F</td>
<td>Program 44.1, 44.4 or 41/44</td>
<td>7</td>
</tr>
<tr>
<td>45.103</td>
<td>Zoology IV</td>
<td>IV</td>
<td>10</td>
<td>F</td>
<td>Program 45.1</td>
<td>7</td>
</tr>
<tr>
<td>73.013</td>
<td>Physiology IV</td>
<td>IV</td>
<td>10</td>
<td>F</td>
<td>Program 73.1</td>
<td>7</td>
</tr>
</tbody>
</table>

§ 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 (407)

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§ Years 1, 2, 3 and 4 in</th>
<th>Number of Level III Units Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.123</td>
<td>Pure Mathematics Honours</td>
<td>IV</td>
<td>10</td>
<td>F</td>
<td>*Program 10.1-12 or 10.2-12</td>
<td></td>
</tr>
<tr>
<td>10.223</td>
<td>Applied Mathematics Honours</td>
<td>IV</td>
<td>10</td>
<td>F</td>
<td>*Program 10.1-22 or 10.2-12</td>
<td></td>
</tr>
<tr>
<td>10.323</td>
<td>Theory of Statistics Honours</td>
<td>IV</td>
<td>10</td>
<td>F</td>
<td>*Program 10.1-32 or 10.2-32</td>
<td></td>
</tr>
<tr>
<td>10.423</td>
<td>Theoretical Mechanics Honours</td>
<td>IV</td>
<td>10</td>
<td>F</td>
<td>*Program 10.1-42 or 10.2-42</td>
<td></td>
</tr>
</tbody>
</table>

* 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.

§ 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.

School of Health Administration

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 or (external) part-time 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 Master of Health Planning and another to 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 for which the School offers excellent facilities.

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:

A comply with the requirements for admission;

B 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.
## Professional Studies

### 404

**Bachelor of Health Administration Course**

**Bachelor of Health Administration (BHA)**

### Full-time Course

#### Year 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.013</td>
<td>Accounting for Health Administration I</td>
<td>S1: 4, S2: 0</td>
</tr>
<tr>
<td>14.023</td>
<td>Accounting for Health Administration II</td>
<td>0: 4</td>
</tr>
<tr>
<td>16.001</td>
<td>Management I</td>
<td>0: 4</td>
</tr>
<tr>
<td>16.201</td>
<td>Law I</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.701</td>
<td>Statistics</td>
<td>0: 4</td>
</tr>
<tr>
<td>16.801</td>
<td>The Australian Health Care System</td>
<td>4: 0</td>
</tr>
</tbody>
</table>

| Total       |                                                 | 12             |

#### Year 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.501</td>
<td>Economics (Health Administration)</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.002</td>
<td>Management II</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.003</td>
<td>Management III</td>
<td>0: 4</td>
</tr>
<tr>
<td>16.202</td>
<td>Law II</td>
<td>0: 4</td>
</tr>
<tr>
<td>16.921</td>
<td>Health Care Planning I</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.922</td>
<td>Health Care Planning II</td>
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</table>

| Total       |                                                 | 12             |

#### Year 3

<table>
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<th>Course Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.101</td>
<td>Comparative Health Care Systems</td>
<td>0: 4</td>
</tr>
<tr>
<td>16.301</td>
<td>Political Science</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.302</td>
<td>Social Administration</td>
<td>0: 4</td>
</tr>
<tr>
<td>16.601</td>
<td>Behavioural Science I</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.602</td>
<td>Behavioural Science II</td>
<td>0: 4</td>
</tr>
<tr>
<td>16.923</td>
<td>Health Care Planning III</td>
<td>4: 0</td>
</tr>
</tbody>
</table>

| Total       |                                                 | 12             |

### External Course

#### Stage 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.014</td>
<td>Accounting for Health Administration</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.201</td>
<td>Law I</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.801</td>
<td>The Australian Health Care System</td>
<td>4: 0</td>
</tr>
</tbody>
</table>

| Total       |                                                 | 12             |

#### Stage 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.024</td>
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<td>4: 0</td>
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<td>4: 0</td>
</tr>
<tr>
<td>16.701</td>
<td>Statistics</td>
<td>4: 0</td>
</tr>
</tbody>
</table>

| Total       |                                                 | 12             |

#### Stage 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.501</td>
<td>Economics (Health Administration)</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.002</td>
<td>Management II</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.921</td>
<td>Health Care Planning I</td>
<td>4: 0</td>
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</tbody>
</table>

| Total       |                                                 | 12             |

#### Stage 4

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.003</td>
<td>Management III</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.202</td>
<td>Law II</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.922</td>
<td>Health Care Planning II</td>
<td>4: 0</td>
</tr>
</tbody>
</table>

| Total       |                                                 | 12             |

#### Stage 5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.301</td>
<td>Political Science</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.601</td>
<td>Behavioural Science I</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.923</td>
<td>Health Care Planning III</td>
<td>4: 0</td>
</tr>
</tbody>
</table>

| Total       |                                                 | 12             |

#### Stage 6

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.101</td>
<td>Comparative Health Care Systems</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.302</td>
<td>Social Administration</td>
<td>4: 0</td>
</tr>
<tr>
<td>16.602</td>
<td>Behavioural Science II</td>
<td>4: 0</td>
</tr>
</tbody>
</table>

| Total       |                                                 | 12             |

† May be varied with approval of the Head of School.
The Department of Industrial Arts offers a BSc(IndArts) DipEd course (401) available through full-time study in the general field of Industrial Arts. The BSc degree course (400) is being phased out and is not available to newly enrolling students. The subjects required to qualify for the degree are set out below. At the graduate level, the Department offers a Master of Science degree by research as well as a course in Industrial Design leading to the award of a Graduate Diploma.

The Subject Matter of Industrial Arts

Through the ages, man has used his intellect, imagination and skill to create useful things. The term 'industrial arts' has come to be used to describe these activities.

Man-made objects form a large part of the human environment: shelter, furniture, fabrics, vessels, tools, machines, vehicles and labour-saving devices of many kinds. Although these objects are designed and made primarily for some practical purpose, each individually makes some contribution to the total quality of the environment. Well-designed, well-made things of the practical kind may be considered 'works of art', thus the best products, whether handmade or factory-produced are evidence of the industrial arts.

Before the growth of modern industrial society, it was possible to identify the industrial arts with certain skilled occupations, for example, gold and silversmithing, weaving, metalworking, woodworking and pottery. Industrial methods and mass production have changed the forms of intellect, imagination and skill required for the creation of useful objects. Products are now seldom the result of the activity of single individuals, rather they reflect the skills of many people applied through the industrial organization. The study basic to Industrial Arts is the relationship between man and his material environment. The important elements in this study are man himself, the materials of his environment, the objects he produces and the processes he uses for production.

Such studies can be concerned as much with the useful objects of antiquity as with those of contemporary industrial civilization. Thus the research activities of the Department of Industrial Arts range from an investigation into the traditional technologies of the ancient cultures to an analysis of the problems of industrial design in contemporary technological society.

The Industrial Arts Course

The course offered by the Department of Industrial Arts is intended to provide a broad understanding of the man-product relationship, with studies in depth of the most relevant areas of knowledge drawn from natural science, technology, social science and other fields. Of central importance is the subject Industrial Arts. The core study in this subject is Tectonic Design. Tectonics is the science and/or art of making things that are both useful and beautiful. Tectonic design is the process whereby materials, functional requirements, appearance, mechanical factors, cost etc are related and integrated into products which satisfy human needs. The design strand is supported by parallel studies in graphics, materials, education. Graphics—the 'visual language' of design—includes a variety of methods of drawing as well as other methods of visual representation, communication and analysis. The other subjects provide specialized information which is needed for the study and teaching of design, in particular, and of industrial arts generally.

Also included are First Year Engineering Units and elective studies in the sciences and general studies.

The Industrial Arts course covers the major subject areas included in both the secondary and senior secondary school curricula. After completion of the degree, graduates will be eligible to become certificated by the Department of Education as four-year trained teachers.

The undergraduate degree also provides a sound basic education for people intending to seek employment in the design field. A Graduate Diploma course in Industrial Design is available for those wishing to become professional Industrial Designers in the product design field.

In general, the Industrial Arts course provides a broad education which embraces the sciences, technological studies, the humanities, social sciences, and the arts. Education of this type is becoming increasingly important for employment in semi-technical fields such as technical sales, engineering administration, work study, technical writing and information services.
Professional Studies

Industrial Arts—Full-time Course

Bachelor of Science
BSc

This course is being discontinued from 1977 and no new students may be enrolled. Students already enrolled in the course may continue with their studies until completion of the degree.

Year 2

Hours per week

4.911 Materials Science
Psychology II† 1½
21.011 Industrial Arts I 7
21.201 Freehand Drawing 3
58.512 Introduction to Education 3
An elective science subject
10.001 Mathematics I 6
or
27.801 Introduction to Physical Geography* 4½
27.802 Introduction to Human Geography*

Year 3

4.951 Materials Technology 4
21.012 Industrial Arts II 4
21.211 Drawing and Design 2
21.902 Seminar 1
58.071 Methods of Teaching IA 3
58.513 Education IA 4½
General Studies 1½
An elective science subject
10.111A Pure Mathematics II—Algebra
10.111B Pure Mathematics II—Analysis
10.211A Applied Mathematics II—Mathematical Methods 6
or
27.811 Physical Geography** 2½
27.812 Human Geography**

Year 4

21.013 Industrial Arts III 5
21.903 Project 3
58.072 Methods of Teaching IIA 3
58.514 Education IIA 4

An elected science subject
10.111C Pure Mathematics II—Abstract Algebra
10.112D Pure Mathematics III—Set Theory
10.212A Applied Mathematics III—Numerical Analysis plus one of 10.112C, 10.112E or 10.212D 8
or
Geography† 2½
or
Psychology III* 8

* Psychology III comprises four units selected in consultation with the School of Psychology.
† Two upper level units selected in consultation with the School of Geography.

Year 1

Hpw

1.011H Higher Physics or 6
1.001 Physics I 6
2.001 Chemistry I 6
5.010 Engineering A 6
5.030 Engineering C 6
21.311 Industrial Arts I 5
23

Year 2

4.911 Materials Science 1½
12.001 Psychology I 5
21.312 Industrial Arts II 10
58.512 Introduction to Education 2½
58.542 Education I 3
58.593 General Studies Elective 1½
23½

Year 3

4.951 Materials Technology 4
12.002 Psychology II 7
21.313 Industrial Arts III 8
58.513 Education IA 4
58.543 Education IID 3
58.593 School Experience I 2
28
Subject Units in Industrial Arts

21.311 Industrial Arts I
All units are compulsory

<table>
<thead>
<tr>
<th>Session hours*</th>
</tr>
</thead>
<tbody>
<tr>
<td>21.3111 Workshop Practice</td>
</tr>
<tr>
<td>21.3112 Introduction to design methods</td>
</tr>
<tr>
<td>21.3113 Basic design</td>
</tr>
<tr>
<td>21.3114 Introduction to Graphics</td>
</tr>
<tr>
<td>21.3115 History of Industrial Arts</td>
</tr>
<tr>
<td>21.3116 Research Methods</td>
</tr>
</tbody>
</table>

21.312 Industrial Arts II
All units are compulsory

<table>
<thead>
<tr>
<th>Session hours*</th>
</tr>
</thead>
<tbody>
<tr>
<td>21.3121 Ethnotechnology I</td>
</tr>
<tr>
<td>21.3122 Craft IIA</td>
</tr>
<tr>
<td>21.3123 Industrial Design I</td>
</tr>
<tr>
<td>21.3124 Graphics I</td>
</tr>
<tr>
<td>21.3125 Industrial and Social Organization I</td>
</tr>
<tr>
<td>21.3127 History of Art and Design</td>
</tr>
<tr>
<td>21.3126 Project</td>
</tr>
</tbody>
</table>

21.313 Industrial Arts III
Two units to be chosen from 21.3131, 21.3132, 21.3133, 21.3134, while 21.3135 is compulsory.

<table>
<thead>
<tr>
<th>Session hours*</th>
</tr>
</thead>
<tbody>
<tr>
<td>21.3131 Ethnotechnology II</td>
</tr>
<tr>
<td>21.3132 Craft IIA</td>
</tr>
<tr>
<td>21.3133 Industrial Design II</td>
</tr>
<tr>
<td>21.3134 Graphics II</td>
</tr>
<tr>
<td>21.3135 Industrial and Social Organization II</td>
</tr>
</tbody>
</table>

21.314 Industrial Arts IV

<table>
<thead>
<tr>
<th>Session hours*</th>
</tr>
</thead>
<tbody>
<tr>
<td>21.3141 Ethnotechnology III</td>
</tr>
<tr>
<td>21.3142 Craft IIIA</td>
</tr>
<tr>
<td>21.3143 Industrial Arts III</td>
</tr>
<tr>
<td>21.3144 Graphics III</td>
</tr>
<tr>
<td>21.3145 Industrial and Social Organization III</td>
</tr>
<tr>
<td>21.3146 Advanced Project</td>
</tr>
<tr>
<td>21.3147 Appropriate Technology</td>
</tr>
</tbody>
</table>

*One session hour consists of 1 hour per week for one session.

Industrial Arts—Part-time Course

Bachelor of Science (Technology)
BSc

This course is being progressively discontinued. Students should consult pages B319-B320 in the 1972 Calendar for the course outline.

School of Librarianship

The School of Librarianship offers graduate courses only leading to 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

The School of Social Work offers a course leading to the degree of Bachelor of Social Work. The degree of Master of Social Work (MSW) is also available, and may be undertaken by course work or by research.

Bachelor of Social Work (BSW)
Degree Course

This undergraduate course is designed to prepare students for the professional practice of social work. It is normally undertaken as a four-year full-time program. However, at the discretion of the Head of School, a student unable to study full-time may, under special circumstances, take the course over a period of time not exceeding seven (7) years.

The social work profession is primarily focused on problems in man's social relationships—in his interaction with other human beings and with man-made structures. The profession is concerned with the patterns, directions, quality, and outcomes of man's social
Professional Studies

relationships. It seeks to enhance social functioning by directing its attention both to the capacity of individuals, groups, organizations and communities for effective interaction, and to the contribution of socially-provided resources to social functioning.

Through their professional education, social work practitioners share common knowledge, values and skills.

To become a professional person, the social work student needs to be as well informed about broad social welfare problems, policies and provision, and individual, group and sociocultural determinants of behaviour, as he is skilled in the use of social work methods. Members of the profession are particularly concerned that all people are treated with understanding and respect, especially those who are experiencing difficulties in their social living.

The objective of the course is to lay the groundwork for a variety of professional social work tasks. It is concerned with general approaches to problem-solving on a basis of scientific knowledge, professionally accepted values, and skills in interpersonal relations. While each student learns about all the main social work methods—social casework, group work, community work, administration, and research—special care is taken to ensure that he acquires initial professional competence in at least one. In the later stages of the course the student concentrates upon the professional method of his choice.

The School provides opportunities, both in its regular subjects and in occasional special courses, for experienced social workers to keep abreast of educational developments in their specialized field, or method of work, or in some other field or method in which they have new responsibilities.

Field Education

A fundamental aspect of the course is supervised learning in the field, and this is in fact a basic requirement for the professional recognition of the degree. In the field instruction subjects—Social Work Practice I, Social Work Practice IIB, and Social Work Practice IIIB—a student is under the supervision of a field instructor of the School, usually in a social work agency, while he learns to apply the principles of professional practice in an actual practice setting. From half-way 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 work placements will be in more than one type of social work setting. Some of the settings used are: medical, psychiatric, family and child welfare, services to the aged, and corrective services. Non-government agencies and agencies at all levels of government are included in the program.

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 he 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.

403 Social Work—Full-time Course

Bachelor of Social Work

BSW

Year 1

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.001</td>
<td>Psychology I</td>
<td>6</td>
</tr>
<tr>
<td>53.101</td>
<td>Sociology 1A</td>
<td>2</td>
</tr>
<tr>
<td>53.102</td>
<td>Sociology 1B</td>
<td>2</td>
</tr>
<tr>
<td>63.123</td>
<td>Australian Social Organization</td>
<td>3</td>
</tr>
</tbody>
</table>

Progression

Year 2

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>63.203</td>
<td>Human Behaviour I</td>
<td>3</td>
</tr>
<tr>
<td>63.211</td>
<td>Social &amp; Behavioural Science</td>
<td>3</td>
</tr>
<tr>
<td>63.231</td>
<td>Research Methods I</td>
<td>3</td>
</tr>
<tr>
<td>63.242</td>
<td>Social Philosophy I</td>
<td>3</td>
</tr>
<tr>
<td>63.251</td>
<td>Social Welfare I</td>
<td>3</td>
</tr>
<tr>
<td>63.263</td>
<td>Social Work Practice IA</td>
<td>4</td>
</tr>
<tr>
<td>63.272</td>
<td>Social Work Practice IB</td>
<td>2</td>
</tr>
</tbody>
</table>

Year 3

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>63.303</td>
<td>Human Behaviour II</td>
<td>4</td>
</tr>
<tr>
<td>63.342</td>
<td>Social Philosophy II</td>
<td>3</td>
</tr>
<tr>
<td>63.353</td>
<td>Social Welfare II</td>
<td>3</td>
</tr>
<tr>
<td>63.363</td>
<td>Social Work Practice IIA</td>
<td>5</td>
</tr>
<tr>
<td>63.371</td>
<td>Social Work Practice IIB</td>
<td>2</td>
</tr>
</tbody>
</table>

Year 4

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>63.431</td>
<td>Research Methods II</td>
<td>2</td>
</tr>
<tr>
<td>63.453</td>
<td>Social Welfare III</td>
<td>4</td>
</tr>
<tr>
<td>63.463</td>
<td>Social Work Practice IIIA</td>
<td>5</td>
</tr>
<tr>
<td>63.472</td>
<td>Social Work Practice IIIB</td>
<td>3</td>
</tr>
<tr>
<td>63.483</td>
<td>The Social Work Profession</td>
<td>2</td>
</tr>
</tbody>
</table>

*Part 1: 6-week block in January and February—40 days.
Part 2: 3-week block in Midyear Recess + 2 days a week during Session 2 to end of week 14—45 days.

Hours per week

<table>
<thead>
<tr>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>7</td>
</tr>
</tbody>
</table>

According to the program provided resources to social functioning.
Graduate Study

Graduate Study

Qualifying Programs
(for admission to Higher Degree Candidature)

Students may only enrol in such programs after approval has been obtained from the relevant Higher Degree Committee.

Unless advised to the contrary successful applicants are required to attend for enrolment at the appropriate time and place as listed below. The letter offering a place must be taken to the enrolment centre.

Candidates who are continuing a qualifying program are required to attend for re-enrolment at the appropriate time and place as listed below.

Note: All qualifying students must lodge an authorized enrolment form with the Cashier on the day the enrolling officer signs the form. (See Enrolment Procedures earlier in this handbook.)

Schools in the Faculty of Professional Studies, except the School of Education

- Friday 4 March
  - 2.00 pm to 5.00 pm
  - 6.00 pm to 8.00 pm
- Office of the appropriate School

School of Education

Wednesday 23 February
2.00 pm to 5.00 pm

Room 23
Building M
Western Grounds Area

Higher Degree Research Programs

New Students

Students seeking admission to Higher Degree (Research) must make application on the appropriate form which should be submitted to the Registrar. Successful applicants will be advised by letter concerning the method of enrolment.

Re-enrolling Students

Candidates registered for Higher Degrees (Research) are required to re-enrol at the commencement of each academic year. Unless advised to the contrary candidates should obtain re-enrolment forms and advice on procedure and fees from the office of the appropriate School after 1 January 1977. Each candidate must complete a re-enrolment form and submit it to the
Professional Studies

Cashier. (See Enrolment Procedures earlier in this handbook.)

A candidate who has completed all the work for a graduate degree except for the submission of a thesis is required to re-enrol as above unless the thesis is submitted by 18 March 1977 in which case the candidate is not required to re-enrol.

Masters Degree and Graduate Diploma Courses

Note: All formal masters and graduate diploma students must lodge an authorized enrolment form with the Cashier on the day the enrolling officer signs the form. (See Enrolment Procedures earlier in this handbook.)

New Students

Students seeking admission to formal masters courses and graduate diploma courses are required to apply on the appropriate form and by the closing date specified for the particular course. Unless advised to the contrary successful applicants are required to attend for enrolment at the appropriate time and place as listed below. The letter offering a place must be taken to the enrolment centre.

Re-enrolling Students

Candidates continuing formal graduate courses including those who have completed their formal examination but have not submitted their project report are required to attend for re-enrolment at the appropriate time and place as listed below:

Diploma in Education (DipEd)

<table>
<thead>
<tr>
<th>Surname Range</th>
<th>Date and Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>A to L</td>
<td>Tuesday 15 February 10.00 am to 12.30 pm</td>
</tr>
<tr>
<td>M to Z</td>
<td>2.00 pm to 4.30 pm</td>
</tr>
<tr>
<td>Lecture Hall 100</td>
<td>Western Grounds Area</td>
</tr>
</tbody>
</table>

Master of Education (MEd)

<table>
<thead>
<tr>
<th>Category</th>
<th>Date and Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Re-enrolling Students</td>
<td>Wednesday 9 February 2.00 pm to 5.00 pm</td>
</tr>
<tr>
<td>New Students</td>
<td>Wednesday 23 February 2.00 pm to 5.00 pm</td>
</tr>
<tr>
<td>Room 23</td>
<td>Building M</td>
</tr>
<tr>
<td></td>
<td>Western Grounds Area</td>
</tr>
</tbody>
</table>

Master of Counselling Education (MCouns(Ed))

Students should check arrangements with the School of Education Office.

Master of Health Administration (MHA)

Room G31                   Friday 4 March 10.00 am to 4.00 pm
The Chancellery

Master of Health Planning (MHP)

Room G37                   Friday 4 March 2.00 pm
The Chancellery

Industrial Design (GradDip)

Hut 34                     Friday 4 March 6.00 pm to 7.30 pm
Western Grounds Area

Master of Librarianship, Diploma in Librarianship and Diploma in Archives Administration

Office of the School of Librarianship Hut 12 Wednesday 2 March 9.30 am to 12.00 noon 2.00 pm to 7.00 pm

Master of Social Work (MSW)

School of Social Work Friday 4 March 2.00 pm to 5.00 pm
Faculty of Professional Studies

The Faculty of Professional Studies consists of the Schools of Education, Health Administration, Librarianship and Social Work and the Department of Industrial Arts. 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 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, industrial design 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) and Master of Counselling (Education) (MCouns(Ed)).

556 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>Code</th>
<th>Subject</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>58.001</td>
<td>Educational Psychology</td>
<td>2</td>
</tr>
<tr>
<td>58.002</td>
<td>Philosophy of Education</td>
<td>2</td>
</tr>
<tr>
<td>58.003</td>
<td>Sociology of Education</td>
<td>2</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.
Professional Studies

<table>
<thead>
<tr>
<th>Hours per week</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>58.021 Commerce/Economics Method</td>
<td>2</td>
</tr>
<tr>
<td>58.022 English Method—Single</td>
<td>2</td>
</tr>
<tr>
<td>58.023 English Method—Double</td>
<td>4</td>
</tr>
<tr>
<td>58.024 French Method</td>
<td>2</td>
</tr>
<tr>
<td>58.025 Geography Method</td>
<td>2</td>
</tr>
<tr>
<td>58.026 German Method</td>
<td>2</td>
</tr>
<tr>
<td>58.027 History Method</td>
<td>2</td>
</tr>
<tr>
<td>58.028 Industrial Arts Method—Double</td>
<td>4</td>
</tr>
<tr>
<td>58.029 Library Method</td>
<td>2</td>
</tr>
<tr>
<td>58.030 Mathematics Method—Single</td>
<td>2</td>
</tr>
<tr>
<td>58.031 Mathematics Method—Double</td>
<td>4</td>
</tr>
<tr>
<td>58.032 Science Method—Single</td>
<td>2</td>
</tr>
<tr>
<td>58.033 Science Method—Double</td>
<td>4</td>
</tr>
<tr>
<td>58.034 Slow Learner Method</td>
<td>2</td>
</tr>
<tr>
<td>58.035 Social Science Method</td>
<td>2</td>
</tr>
<tr>
<td>58.036 Spanish Method</td>
<td>2</td>
</tr>
<tr>
<td>58.038 Electives</td>
<td>3</td>
</tr>
</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. Students are encouraged to initiate further elective courses.

Practical Subjects

<table>
<thead>
<tr>
<th>Practice Teaching</th>
<th>4.7 equiv.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(5½ hours per day for 12 days averaged over 14 weeks.)</td>
<td></td>
</tr>
<tr>
<td>Applied Studies in Teaching Practice</td>
<td>1</td>
</tr>
<tr>
<td>(a composite subject made up of activities such as micro-teaching, skill development and selected activities.)</td>
<td></td>
</tr>
</tbody>
</table>

Session 2

<table>
<thead>
<tr>
<th>Hours per week</th>
<th>Equivalent hours for 4.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 2</td>
<td>for 14 weeks 6</td>
</tr>
<tr>
<td>(for 10 weeks)*</td>
<td></td>
</tr>
<tr>
<td>58.005† Education Options</td>
<td>8</td>
</tr>
<tr>
<td>58.037† Advanced Method and Curriculum Studies</td>
<td>6</td>
</tr>
<tr>
<td>58.051 Practice Teaching</td>
<td>7.8</td>
</tr>
<tr>
<td>(See next column) (5½ hours per day for 20 days averaged over 14 weeks.)</td>
<td></td>
</tr>
<tr>
<td>58.052 Applied Studies in Teaching</td>
<td>.7</td>
</tr>
<tr>
<td>58.004 Electives</td>
<td>2</td>
</tr>
<tr>
<td>(Further electives similar to those described for Session 1 will operate in Session 2 and under similar conditions.)</td>
<td></td>
</tr>
</tbody>
</table>

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.
†Students have a free choice of options to be drawn from any one of the core studies, or from a combination of them, or from additional educational studies which may be offered from time to time.
‡A flexible arrangement of studies is offered, which may include method options.

299
Master of Education (Honours) Course

891
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 generally taken by subjects to the value of eight units together with a project. 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>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>58.201G Comparative Education</td>
</tr>
<tr>
<td>58.202G Educational Planning and Administration</td>
</tr>
<tr>
<td>58.204G Educational Theory in the Twentieth Century</td>
</tr>
<tr>
<td>58.206G History of Education</td>
</tr>
<tr>
<td>58.212G Mathematics Education</td>
</tr>
<tr>
<td>58.214G Advanced Educational Research</td>
</tr>
<tr>
<td>58.215G Social Sciences Education</td>
</tr>
<tr>
<td>58.216G Educational Research</td>
</tr>
<tr>
<td>58.217G Educational Research T</td>
</tr>
<tr>
<td>58.280G Project</td>
</tr>
</tbody>
</table>
Graduate Study

Philosophy of Education Subjects

58.250G Introduction to Philosophy of Education 2
58.251G Ethical Theories and Moral Education* 2
58.252G The Nature of Theory and the Study of Education* 2
58.253G Philosophy and the Curriculum* 2
58.254G The Philosophy of Mind and Educational Theory* 2
58.255G Marxism and the Study of Education* 2
*Prerequisite: 58.250G or equivalent.

Sociology of Education Subjects

58.300G The Role of Education In Society 2
58.301G Sociology of Education A 2
58.302G Sociology of Education B* 2
*Prerequisite: 58.300G or 58.301 G or equivalent.

Science Education Subjects

58.330G General Issues in Science Education 2
58.331G The Development of Scientific Concepts* 1
58.332G Evaluation in Science Education* 1
58.333G Primary Science Education* 1
58.334G The Nature of Science and Science Education* 1
58.335G Curriculum Development in Science* 1
*Prerequisite: 58.330G or equivalent.

Educational Psychology Subjects

58.360G Introduction to Educational Psychology 1
58.361G Introduction to Child Growth and Development 1
58.362G Child Growth and Development 1
58.363G Cognitive Development and Classroom Learning* 1
58.364G Instructional Technology* 1
58.365G Motivation and Attitudes in School Settings* 1
58.366G History of Educational Psychology* 1
58.367G Contemporary Issues in Educational Psychology† 1
58.368G Psychology, History and Literature‡† 1
58.371G Advanced Developmental Psychology in Educational Behavioural Settings‡ 1
58.372G Learning Theory and Classroom Instruction‡ 1
58.373G Behaviour Modification in the Classroom and School Setting‡ 1
58.374G Social Learning and Education‡ 1
58.375G Psychophysiology in the Classroom‡ 1
58.376G The Education of Exceptional Children‡ 1
58.377G Personality Development and Counselling Techniques in Education‡ 1
58.378G The Role of the School Psychologist‡ 1
*Prerequisite: 58.360G or equivalent.
†Prerequisite: 58.360G or equivalent plus 1 other Educational Psychology subject or equivalent.
‡Prerequisite: 58.360G or 58.361G or equivalent.
‡†Prerequisite: a 3-year major in Psychology at undergraduate level or equivalent.

Sociology of Education Subjects

58.330G General Issues in Science Education 2
58.331G The Development of Scientific Concepts* 1
58.332G Evaluation in Science Education* 1
58.333G Primary Science Education* 1
58.334G The Nature of Science and Science Education* 1
58.335G Curriculum Development in Science* 1
*Prerequisite: 58.330G or equivalent.

Science Education Subjects

58.330G General Issues in Science Education 2
58.331G The Development of Scientific Concepts* 1
58.332G Evaluation in Science Education* 1
58.333G Primary Science Education* 1
58.334G The Nature of Science and Science Education* 1
58.335G Curriculum Development in Science* 1
*Prerequisite: 58.330G or equivalent.

Educational Psychology Subjects

58.360G Introduction to Educational Psychology 1
58.361G Introduction to Child Growth and Development 1
58.362G Child Growth and Development 1
58.363G Cognitive Development and Classroom Learning* 1
58.364G Instructional Technology* 1
58.365G Motivation and Attitudes in School Settings* 1
58.366G History of Educational Psychology* 1
58.367G Contemporary Issues in Educational Psychology† 1
58.368G Psychology, History and Literature‡† 1
58.371G Advanced Developmental Psychology in Educational Behavioural Settings‡ 1
58.372G Learning Theory and Classroom Instruction‡ 1
58.373G Behaviour Modification in the Classroom and School Setting‡ 1
58.374G Social Learning and Education‡ 1
58.375G Psychophysiology in the Classroom‡ 1
58.376G The Education of Exceptional Children‡ 1
58.377G Personality Development and Counselling Techniques in Education‡ 1
58.378G The Role of the School Psychologist‡ 1
*Prerequisite: 58.360G or equivalent.
†Prerequisite: 58.360G or equivalent plus 1 other Educational Psychology subject or equivalent.
‡Prerequisite: 58.360G or 58.361G or equivalent.
‡†Prerequisite: a 3-year major in Psychology at undergraduate level or equivalent.

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.
2. Candidates with appropriate Honours degrees may be registered for MEd(Hons) at initial enrolment. Their program is subjects 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 MEd(Pass) to MEd(Hons) after completion of subjects to the value of eight units are reminded of the conditions governing maximum time.

294
Master of Counselling (Education) (Honours) Course*

895
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 generally is 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.

Hours per week

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>58.601G Theories of Counselling</td>
<td>3</td>
</tr>
<tr>
<td>58.602G Psychological Analysis: Assessment and Diagnosis</td>
<td>3</td>
</tr>
<tr>
<td>58.603G Counselling Interventions</td>
<td>3</td>
</tr>
<tr>
<td>58.604G Personality Theories</td>
<td>3</td>
</tr>
<tr>
<td>58.605G Human Development</td>
<td>3</td>
</tr>
<tr>
<td>58.606G Contemporary Issues in Counselling and Counselling Psychology</td>
<td>3</td>
</tr>
<tr>
<td>58.607G Research Methods and Evaluation in Counselling</td>
<td>3</td>
</tr>
<tr>
<td>58.608G Professional Practice</td>
<td>6</td>
</tr>
<tr>
<td>58.695G Project (Pass)</td>
<td></td>
</tr>
<tr>
<td>58.681G Thesis (Hons)</td>
<td></td>
</tr>
</tbody>
</table>

*This course is subject to ratification by Council.

77
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 for which the School offers excellent facilities.

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.

296
Master of Health Administration (By Research)

Master of Health Administration
MHA

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

890
Master of Health Administration (By Formal Course Work)

Master of Health Administration
MHA

The course has been designed to equip students with the basic knowledge required for senior administrative and planning work in hospitals and other health services. It does not emphasize training in specialized techniques but aims to introduce basic concepts and to educate students for management in the broadest sense of that term. No previous experience in the health field is required and graduates from any discipline are eligible to apply.

The degree is awarded on the successful completion of the following program, normally taken by full-time study over two years.

Full-time Course

Year 1
Session 1

14.940G Accounting & Financial Management A 3
16.901G Health Services Statistics I 2
16.904G Australian Health Care System 2
16.905G Health Services Accounting 2
28.935G Behavioural Science I 3
28.955G Development & Management of Human Resources 3

Year 1
Session 2

14.941G Accounting & Financial Management B 3
16.902G Health Services Statistics II 2
16.937G Health Services Research & Evaluation 2
16.970G Health Services Management I 2
28.936G Behavioural Science II 3
28.958G Organizational Communications 3

Year 2
Session 1

16.930G Introduction to Health Planning 2
16.933G Health Services Law I 2
16.935G Health Economics I 2
16.971G Health Services Management II 2
16.972G Introduction to Macro Economics (Health) 1
16.990G Research Project 2
Electives* 4

15
Year 2

Session 2

16.909G Community Health Planning 2
16.934G Health Services Law II 2
16.936G Physical Planning & Design 2
16.945G Medical Sociology 2
16.990G Research Project 2
Electives* 6
16

*Electives are to be chosen by the student in consultation with the Head of the School of Health Administration from the graduate subjects offered within the University. The approval of the relevant Head of School is required to undertake an elective offered by another school.

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.

894

Master of Health Planning Course

Master of Health Planning
MHP

Full-time Course

Session 1

Hours per week
16.930G Introduction to Health Planning 2
16.931G Introduction to Organization Theory 2
16.932G Introduction to Behavioural Science 2
16.931G Health Services Statistics I 2
16.904G Australian Health Care System 2
16.905G Health Services Accounting 2
16.933G Health Services Law I 2
16.935G Health Economics I 2
16

Session 2

16.909G Community Health Planning 2
16.936G Physical Planning & Design 2
16.937G Health Services Research and Evaluation 2
16.938G Seminar in Health Policy 2
16.902G Health Services Statistics II 2
16.934G Health Services Law II 2
Plus Project and/or Electives* 6
18

*Note:

1. Electives are to be chosen by the student in consultation with the Head of the School of Health Administration from the graduate subjects offered within the University. The approval of the relevant Head of School is required to undertake an elective offered by another school.

2. It is expected that the following elective subjects will be offered by the School of Health Administration in 1977:

   Equivalent hours per week

   16.907G Hospital Organization and Management II 2
   16.940G Medical Care Organization 2
   16.941G Epidemiology 2
   16.942G Medical Sociology 2
   16.943G Interpersonal Communications in Organizations 2
   16.944G Health Economics II 2
   16.945G Health Manpower 1
   16.946G Health Information Systems 1
   16.947G Comparative Health Care Systems 2
   16.948G Operations Research for Health Planning & Administration 2
   16.949G Organizational Analysis in Health Services 2

Students may obtain credit of 2, 3 or 4 hours per week by undertaking a research project approved by the Head of School.

Department of Industrial Arts

At graduate level the Department of Industrial Arts offers a Master of Science degree by research as well as a course in Industrial Design leading to a Graduate Diploma. In addition the degree of Doctor of Philosophy may be taken following periods of full-time or part-time research in the Department.
Professional Studies

295
Master of Science (By Research)
Master of Science MSc
The conditions governing the award of the degree of Master of Science by research are set out earlier in this section.

557
Industrial Design
Graduate Diploma Course* 
Graduate Diploma GradDip
The Graduate Diploma course provides a broad education in industrial design for those students who hold first degrees, although it is expected that students will, in general, come from the professions of engineering and architecture. The course has been so structured that graduates with the necessary talents and interests from other disciplines are provided for. According to demand, the course may be available full-time over one year or part-time over two years.

Year 1
—Part-time Course

Hours per week

21.501/1G Industrial Design 4
21.511/1G Design Projects 3
21.521/1G Seminar 1
21.531/1G Creative Art Elective 3

—

11

Year 2

21.501/2G Industrial Design 4
21.511/2G Design Projects 3
21.521/2G Seminar 1
21.531/2G Creative Art Elective 3

—

11

*Not available in 1977.

School of Librarianship

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

298
Master of Librarianship (By Research)
Master of Librarianship MLib
In addition to the thesis requirement, each candidate will complete the following two subjects to be taken in one year:

<table>
<thead>
<tr>
<th>Hours per week</th>
<th>S1</th>
<th>S2</th>
</tr>
</thead>
<tbody>
<tr>
<td>55.805G Issues in Librarianship</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>55.807G Research Methods in Librarianship</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

892
Master of Librarianship (By Formal Course Work)
Master of Librarianship MLib
Advanced training in librarianship by formal course work is designed to provide education in broad areas of specialization beyond the basic professional level. The present program of study provides a course for those who will specialize in the application of principles to the organization and management of libraries.

Each candidate will complete the program of study which may be taken on a full-time basis in one year and on a part-time basis over two years.

In addition to the formal course work, each candidate will be required to submit a report on a project (55.901G) involving individual study and investigation.

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

Full-time Course

<table>
<thead>
<tr>
<th>Hours per week</th>
<th>S1</th>
<th>S2</th>
</tr>
</thead>
<tbody>
<tr>
<td>55.801G Library and Information Services Management A</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>55.803G Library and Information Services Management B</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>55.805G Issues in Librarianship</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>55.807G Research Methods in Librarianship</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>55.901G Project Report</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>28.935G Behavioural Science I*</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>28.936G Behavioural Science II*</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>28.955G Development and Management of Human Resources*</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>28.958G Organizational Communications*</td>
<td>0</td>
<td>3</td>
</tr>
</tbody>
</table>

*These subjects are undertaken within the Master of Commerce program.
Part-time Course

Year 1

55.801G Library and Information Services Management A 
   Hpw S1 S2 2 2
28.935G Behavioural Science I* 3 0
28.936G Behavioural Science II* 0 3
28.955G Development and Management of Human Resources* 
   3 0
28.958G Organizational Communications* 0 3

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

Year 2

55.803G Library and Information Services Management B 2 2
55.805G Issues in Librarianship 0 2
55.807G Research Methods in Librarianship 2 0
55.901G Project Report

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.

559

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 obtain 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>Subject</th>
<th>Hours per session</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>55.112 Libraries and Information</td>
<td>42</td>
<td>0</td>
</tr>
<tr>
<td>55.114 Communication and Record</td>
<td>42</td>
<td>0</td>
</tr>
<tr>
<td>55.122 Library Materials Selection and Organization</td>
<td>56</td>
<td>5</td>
</tr>
<tr>
<td>55.123 Reference Service and Materials</td>
<td>56</td>
<td>0</td>
</tr>
<tr>
<td>55.124 Library Administration</td>
<td>14</td>
<td>2</td>
</tr>
<tr>
<td>55.991 General Assignment</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Optional

- Group I

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours per session</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>55.231 Subject Bibliography: The Humanities</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>55.232 Subject Bibliography: The Social Sciences</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>55.233 Subject Bibliography: Pure and Applied Sciences</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>55.236 Subject Bibliography: Law (Co-requisite 55.238)</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>55.238 Subject Bibliography: Government Publications</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>55.371 Literature for Young People</td>
<td>0</td>
<td>2</td>
</tr>
</tbody>
</table>

- Group II

<table>
<thead>
<tr>
<th>Subject</th>
<th>Hours per session</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>55.362 Mechanized Systems for Libraries</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>55.373 Public Libraries</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>55.378 University and College Libraries</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>55.381 Special Libraries</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>55.385 School Libraries I</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>(Co-requisites 55.371, 55.386)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>55.386 School Libraries II</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>(Co-requisites 55.371, 55.385)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* In addition to formal course work there are occasional field excursions, and students taking 55.365 and 55.366 will be required to serve an attachment to a public library and a school library for the equivalent of 4 hours weekly for 28 weeks, or a 4-week block if totally outside of session.

† Not all the optional subjects are necessarily available each year.

560

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. Candidates who have not studied Australian history and politics may be required to take a qualifying or concurrent program approved by the Faculty of Professional Studies.

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 week</th>
<th>S1</th>
<th>S2</th>
</tr>
</thead>
<tbody>
<tr>
<td>55.123 Reference Service and Materials</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>55.238 Subject Bibliography: Government Publications</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>55.712 Archives Theory and History</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>55.713 Archives Administration</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>55.714 Information Environment for Archivists and any one of</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>55.231 Subject Bibliography: The Humanities</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>55.232 Subject Bibliography: The Social Sciences</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>55.233 Subject Bibliography: Pure and Applied Sciences</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>55.236 Subject Bibliography: Law</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>15</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

### Part-time Course

#### Year 1

<table>
<thead>
<tr>
<th>Hours per week</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>55.123 Reference Service and Materials</td>
<td>4</td>
</tr>
<tr>
<td>55.238 Subject Bibliography: Government Publications</td>
<td>0</td>
</tr>
<tr>
<td>55.712 Archives Theory and History and any one of</td>
<td>4</td>
</tr>
<tr>
<td>55.231 Subject Bibliography: The Humanities</td>
<td>0</td>
</tr>
<tr>
<td>55.232 Subject Bibliography: The Social Sciences</td>
<td>0</td>
</tr>
<tr>
<td>55.233 Subject Bibliography: Pure and Applied Sciences</td>
<td>0</td>
</tr>
<tr>
<td>55.236 Subject Bibliography: Law</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

#### Year 2

<table>
<thead>
<tr>
<th>Hours per week</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>55.713 Archives Administration</td>
<td>4</td>
</tr>
<tr>
<td>55.714 Information Environment for Archivists</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
</tr>
</tbody>
</table>

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### School of Social Work

#### Master of Social Work

The School of Social Work offers the degree of Master of Social Work, which may be undertaken by research or by formal course work. The conditions governing the award of the degree are set out earlier in this section.

#### Master of Social Work (By Research)

**Master of Social Work (MSW)**

The degree of Master of Social Work by research requires that in addition to the thesis, each candidate must in his first year of registration complete the subjects 63.807G Social Policy Analysis and 63.814G Social Planning.

#### Master of Social Work (By Formal Course Work)

**Master of Social Work (MSW)**

This course is designed to extend the professional knowledge of qualified social workers. Candidates may specialize in interpersonal helping, community work or administration. In addition to the formal course work, each candidate is required to submit a report on a project involving individual study and investigation of some area of social welfare.

The course is available as a one-year full-time program or a two-year part-time program.

### Full-time Course

#### Session 1

<table>
<thead>
<tr>
<th>Hours per week</th>
<th></th>
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<tr>
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<tr>
<td>63.818G Advanced Social Work Practice I (Administration)</td>
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<tr>
<td>63.806G Social and Behavioural Science</td>
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<tr>
<td>63.809G Professional Interpersonal Competence</td>
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### Session 2

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<tr>
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<td>63.814G</td>
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**Total: 18 hours**

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### Part-time Course

#### Session 1

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**Total: 9 hours**

#### Session 2

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**Total: 8 hours**

#### Session 3

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<td>Issues for the Social Work Profession</td>
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**Total: 9 hours**
Conditions for the Award of Higher Degrees

**First Degrees**

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

For the list of undergraduate courses and degrees offered see Disciplines of the University: Faculty Table (Undergraduate Study) in the Calendar.

**Higher Degrees**

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>
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<tr>
<th>Title</th>
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<td>Calendar, Medicine</td>
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<td>PhD</td>
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Professional Studies

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Graduate Diplomas

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**Course withdrawn at end of 1977.
*Faculty of Science.
†Professorial Board.
‡Faculty of Biological Sciences.

Doctor of Philosophy (PhD)

1. The degree of Doctor of Philosophy 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:

Qualifications

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

A hold an honours degree from the University of New South Wales; or
B hold an honours degree of equivalent standing from another approved university; or
C 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 recognised by the appropriate Faculty or Board of Studies as equivalent to honours; or
D 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.

Registration

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

A 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
B submit with his application a certificate from the head of the University school in which he proposes to study stating 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:

A 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;

B 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;

C 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:

A 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;

B 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;

C 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:

A the greater proportion of the work described must have been completed subsequent to registration for the PhD degree;
Professional Studies

B it must be an original and significant contribution to the knowledge of the subject;
C 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;
D 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 conjointly 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:
   A the problem investigated;
   B the procedures followed;
   C the general results obtained;
   D 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:
   A decide that the thesis reaches a satisfactory standard; or
   B recommend that the candidate be required to re-submit his thesis in revised form after a further period of study and/or research; or
   C 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.

*See Conditions for the Award of Degrees in the Calendar.
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 within 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.

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

2. 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 a recognized teaching qualification and two years' experience in schools.

3. 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.

4. Applicants will be expected to undertake such other tests and interviews as may be considered necessary. It should be noted that it may be possible to admit only a limited number of students to the course. If the number of applicants exceeds the number for which resources and facilities are available, admission will be competitive.

5. 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
   and shall pay such fees as shall be determined from time to time by the Council.

6. 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.

7. A 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.

   B The program for the Pass Degree shall include eight formal courses in counselling and related subjects and the submission of a report on a topic approved by the Committee.

   The major parts of these courses will normally be taken within the first year of full-time enrolment at which time the candidate will be in attendance at the University for 80 per cent of the workload. The remainder of the first year will consist of supervised professional practice. In the second year of enrolment a candidate will devote 80 per cent
of his time to supervised practice and the remainder to related University-based seminars in completion of the listed subjects.

C 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. Extension beyond these periods for the completion of the Degree shall be granted only with the approval of the Committee.

8. A An applicant for registration for the Honours Degree shall 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.

B A student who does not satisfy the conditions for registration as provided in Paragraph 8. A 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.

C Notwithstanding any other provisions of these conditions 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.

D A candidate for the Honours Degree will be expected to complete all appropriate courses at a standard approved by the Committee.

E Every Candidate for the Honours Degrees 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.

F For each candidate submitting a thesis for an Honours Degree 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.

G 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 a 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.

9. A Every candidate who submits a thesis for an Honours Degree shall submit three copies of the thesis in a form which complies with the requirements of the University for the preparation and submission of Higher Degree theses.

B 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.

10. 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.

1. An application to register as a candidate for the Degree of Master of Education shall be made on the prescribed form which shall be lodged with the Registrar by 31 October of the year preceding the year in which registration is required.

2. An applicant for registration shall:

A hold a degree of the University of New South Wales or other approved university;
Conditions for the Award of Higher Degrees

B hold the Diploma in Education of the University of New South Wales or other approved university or possess qualifications accepted by the Higher Degree Committee of the Faculty of Professional Studies (hereinafter referred to as 'the Committee') as equivalent; and

C have had at least one year's practical experience in some branch of education acceptable to the Committee.

3. 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.

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

5. 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.

6. 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.

7. A 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.

B The program for the pass degree shall include subjects in education to the value of eight units and the submission of a report on a topic approved by the Committee, but in exceptional cases, and at the discretion of the Committee, the number of units required may be reduced by up to four.

C 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 or external student, from the date on which registration becomes effective. A student taking the pass 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.

D Each report as provided for in paragraph 6. B shall have two examiners approved by the Committee.

8. A An applicant for registration for the Honours degree of Master of Education shall 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.

B A student who does not satisfy the conditions for registration as provided in paragraph 7. A 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.

C Notwithstanding any other provisions of these conditions 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 examination as the Committee may determine.
Professional Studies

D A student satisfying conditions for registration provided in paragraph 7. A 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.

E 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.

F 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.

G 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 from the date on which registration becomes effective. A student transferring to Honours registration by satisfying conditions in paragraph 7. B 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.

9. Every candidate shall submit three copies of the thesis or report in a form which complies with the requirements of the University for the preparation and submission of higher degree theses and project reports.

10. It shall be understood that the University retains three copies of the thesis or report 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 or report in whole or in part in photostat or microfilm or other copying medium.

Master of Health Administration (MHA)

1. An application to register as a candidate for the degree of Master of Health Administration shall be made on the prescribed form which shall be lodged with the Registrar by the thirty-first of August of the year preceding that year in which the candidate desires to commence the course.

2. A An applicant for registration for the degree shall have been admitted to an appropriate degree in the University of New South Wales or other approved university.

B 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 Faculty of Professional Studies (hereinafter referred to as 'the Faculty') on the recommendation of its Higher Degree Committee.

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

4. In every case, before permitting an applicant to register as a candidate, the Faculty shall be satisfied that adequate supervision and facilities are available.

5. An approved applicant shall pay such fees as may be determined from time to time by the Council.
6. Every candidate for the degree shall be required:
A To carry out a program of advanced study; to take such examinations and to perform
such other work as may be prescribed by the Faculty. The program of advanced study
shall include:
1. attendance at the University in a prescribed course of formal work;
2. attachments to hospitals and other organizations for in-service experience;
3. the preparation and submission of a report on a project demonstrating originality.
The attachments referred to in paragraph 6. A 2. and the investigation referred to in
paragraph 6. A 3. shall be under the direction of supervisors appointed by the Faculty
or under such conditions as the Faculty may determine.
A candidate who has already had adequate and satisfactory in-service experience may,
with the approval of the Faculty, be exempt from the attachments referred to in paragraph
6. A 2.; or
B To carry out a program of advanced study and take such examinations and perform
such other work as may be prescribed by the Faculty. The program shall include the
preparation and submission of a thesis embodying the results of an original investigation
or design. The candidate may submit also for examination any work he has published,
whether or not such work is related to the thesis.

7. 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.

8. The report referred to in paragraph 6. A 3. shall be on a topic approved by the Faculty
on the recommendation of the Head of the School before the end of the second session
of Year I. Unless permission to the contrary has been granted, a candidate shall be
required to submit his report not earlier than four sessions, and not later than six
sessions, from the date of registration.

9. Candidates for the award under the conditions contained in paragraph 6. B shall not
be considered for the award of the degree until the lapse of six complete terms from the
date from which the registration becomes effective, save that in the case of a full-time
candidate who has obtained the degree of Bachelor with honours or who has had
previous research experience, this period may with the approval of the Faculty be
reduced by not more than two sessions.

10. Every candidate for the degree shall be required to submit three copies of the report
or thesis as the case may be. 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*.

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

12. For each candidate’s report or thesis there shall be at least two examiners, appointed
by the Professorial Board on the recommendation of the Faculty, one of whom shall if
possible be an external examiner.

13. The award of the degree taken in accordance with paragraph 6. A shall depend upon:
A the candidate’s performance in his in-service attachments;
B the candidate’s performance in the examinations;
C the quality of the candidate’s report.

*See Conditions for the Award of Degrees in the Calendar.
Master of Health Planning (MHP)

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

Qualifications

2. An applicant for registration for the degree shall:

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.

3. 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.

4. 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.

5. 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

6. A An application to register as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar six weeks before commencement of the session in which the candidate desires to commence.

B 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.

C the progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may terminate candidature or take such other action as it considers appropriate.

D 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.

Recommendation for Admission to Degree

7. The Committee, after considering the examiners' reports, where appropriate, and the candidate's other work in the prescribed course of study, shall recommend to the Professorial Board whether or not the candidate should be admitted to the degree.

Fees

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

Master of Librarianship (MLib)
(by Formal Course Work)

1. The degree of Master of Librarianship (by formal course work) may be awarded by the Council on the recommendation of the Professorial Board to a candidate who has satisfactorily completed a program of advanced study comprising formal course work and including the submission of a report on a project approved by the Higher Degree Committee of the Faculty of Professional Studies (hereinafter referred to as 'the Committee').
2. A An applicant for registration for the degree shall:

1. 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, and
2. hold the Diploma in Librarianship of the University of New South Wales or possess a qualification accepted by the Committee as equivalent.

B 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.

C 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. A An application to register as a candidate shall be made on the prescribed form which shall be lodged with the Registrar at least six (6) weeks before the commencement of the session in which the candidate desires to commence registration.

B 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.

C 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.

D 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. A 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.

B 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.

C 1. The report shall be examined by two examiners appointed by the Committee.
   2. A candidate may be required to attend for an oral or written examination.

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.

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 Librarianship (by research) may be awarded by the Council on the recommendation of the Professorial Board to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.

2. A An applicant for registration for the degree shall:

1. have been admitted to an appropriate degree in the University of New South Wales or other approved university at a level approved by the Higher Degree Committee of the Faculty of Professional Studies (hereinafter referred to as 'the Committee') and
2. hold the Diploma in Librarianship of the University of New South Wales or possess a qualification accepted by the Committee as equivalent.
B 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.

C 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.

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

Registration

3. A An application to register as a candidate shall be made on the prescribed form which shall be lodged with the Registrar at least six (6) weeks before the commencement of the session in which the candidate desires to commence registration.

B An applicant shall enrol in one of the following categories:
1. student in full-time attendance at the University,
2. student in part-time attendance at the University,
3. 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.

C 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.

D 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.

E 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.

F Notwithstanding clause 3. E 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.

Thesis

4. A 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. C 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.

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

Examination

5. A 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.

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

C A candidate may be required to attend for an oral or written examination.

D Consequent upon consideration of the examiners' reports 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.
1. The degree of Master of Science may be granted by the Council on the recommendation of the Professorial Board to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.

Master of Science (MSc)

2. An application to register as a candidate for the degree of Master of Science shall be made on the prescribed form which shall be lodged with the Registrar at least one full calendar month before the commencement of the session in which the candidate desires to register.

3. A candidate for registration for the degree shall have been admitted to the degree of Bachelor of Science in the University of New South Wales, or other approved University, in an appropriate School or Department.

B In exceptional cases 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 Professorial Board on the recommendation of the appropriate Faculty or Board of Studies.

4. Notwithstanding any other provisions of these conditions the Faculty or Board of Studies may require an applicant to demonstrate fitness for registration by carrying out such work and sitting for such examinations as the Faculty or Board of Studies may determine.

5. In every case before permitting an applicant to register as a candidate the Faculty or Board of Studies shall be satisfied that adequate supervision and facilities are available.

6. 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;

and shall pay such fees as may be determined from time to time by the Council.

7. Every candidate for the degree shall be required to submit three copies of a thesis embodying the results of an original investigation or design, to take such examinations and to perform such other work as may be prescribed by the Faculty or Board of Studies. 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 submit also for examination any work he has published whether or not such work is related to the thesis.

8. 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.

9. The investigation, design and other work as provided in paragraph 7, shall be carried out under the direction of a supervisor appointed by the Faculty or Board of Studies or under such conditions as the Faculty or Board of Studies may determine.

At least once a year and at any other time that the Higher Degree 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.

10. 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

* See Conditions for the Award of Degrees in the Calendar.
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 six academic sessions from the date of 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 Committee.

11. A candidate shall give in writing to the Registrar two months’ notice of his intention to submit his thesis.

B For each candidate there shall be at least two examiners, appointed by the Professorial Board on the recommendation of the Committee, one of whom, if possible, shall be external to the University.

C After examining the thesis an examiner may:
1. recommend that the candidate be awarded the degree without further examination or
2. recommend that the candidate be awarded the degree subject to minor corrections as listed being made to the satisfaction of the Head of School or
3. recommend that the candidate be not awarded the degree but be permitted to resubmit his thesis in a revised form after a further period of study and/or research or
4. recommend that the candidate be not awarded the degree and be not permitted to resubmit his thesis.

D In considering a recommendation made in terms of clause 3. of sub-condition C of this condition the Committee may specify the period within which the thesis is to be resubmitted.

E Having considered the examiners’ reports the Committee shall recommend to the Professorial Board whether or not the candidate should be admitted to the degree.

Master of Social Work (MSW) (by Research)

1. The degree of Master of Social Work (by research) may be awarded by the Council on the recommendation of the Professorial Board 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.

Qualifications

2. A An applicant for registration for the degree shall:
1. 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
2. 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 Higher Degree Committee of the Faculty of Professional Studies (hereinafter referred to as ‘the Committee’) at a level approved by the Committee; and shall have had at least one year’s professional experience acceptable to the Committee.

B 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.

C 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.

D In every case before permitting an applicant to register as a candidate the Committee shall be satisfied that adequate supervision and facilities are available.
Conditions for the Award of Higher Degrees

3. A An application to register as a candidate shall be made on the prescribed form which shall be lodged with the Registrar at least six (6) weeks before the commencement of the session in which the candidate desires to commence registration.

B An applicant shall enrol in one of the following categories:
1. student in full-time attendance at the University,
2. student in part-time attendance at the University,
3. student working externally to the University.

C In all cases the proposed course of study shall be submitted to the Head of the School of Social Work for approval.

D Every candidate for the degree shall be required:
1. to prepare and submit a thesis on a topic approved by the Committee, embodying the results of an original investigation; and
2. to carry out a prescribed program of advanced study extending over one year, as approved by the Committee.

E 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.

F 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.

4. A 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. D 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.

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

5. A 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.

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

C A candidate may be required to attend for an oral or written examination.

D Consequent upon consideration of the examiners’ reports the Committee shall recommend to the Professorial Board 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 formal course work) may be awarded by the Council on the recommendation of the Professorial Board to a candidate who has satisfactorily completed a program of advanced study.

2. A An applicant for registration for the degree shall:
1. at a level approved by the Higher Degree Committee of the Faculty of Professional Studies (hereinafter referred to as ‘the Committee’) 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; and
Professional Studies

Registration

2. have had at least one year’s professional experience acceptable to the Committee.

B 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.

C 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. A An application to register as a candidate shall be made on the prescribed form which shall be lodged with the Registrar at least six weeks before the commencement of the session in which the candidate desires to commence.

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

C 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.

Recommendation for Admission to Degree

4. Consequent upon consideration of the candidate’s results 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

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

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 course shall be:

A a graduate of the University of New South Wales or other approved university,

B 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:

A complete a one-year full-time course within four consecutive sessions, or

B 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 and Textbooks

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, together with the subject description and the required textbook list, in the section entitled Subject Descriptions and Textbooks.

The identifying numbers for each School are set out below.

Reference booklists are not published here, but are available from the various Schools.

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 information supplied about each subject listed below:

S1 (Session 1); S2 (Session 2); F (Session 1 plus Session 2, ie full year); S1 or S2 (Session 1 or Session 2, ie choice of either session); S (Single Session, ie which session taught not known at time of publication); L (Lecture, followed by hours per week); T (Laboratory/Tutorials, followed by hours per week).

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Subject Descriptions and Textbooks

School of Physics

Undergraduate Study

The School of Physics has introduced new and revised Level II and Level III units. The School realizes that some students presently enrolled have not completed either all of the old Level II units, or all of the old Level III units. Some of the new units are sufficiently compatible to permit substitution of a new unit in a program requiring an old unit. Where this is not possible the old unit is provided for those students wishing to complete a set of Level II or Level III units.

The School of Physics offers most courses at lower and higher levels. The following descriptions refer to lower level courses. A student may substitute a corresponding higher level course, provided that the prerequisites and co-requisites are satisfied.

Physics Level I Units

1.001 Physics I


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.

Textbook

Weidner R. T. & Sells R. L. Elementary Physics, Classical and Modern, Allyn & Bacon

Physics Level II Units

1.012 Mechanics and Thermal Physics

Prerequisites: 1.001, 10.001. Co-requisite: 10.211A.

Properties of solids and liquids, elasticity, hydrostatics, hydrodynamics, damped and forced vibrations, resonance, coupled systems, normal modes, Fourier analysis, waves, group velocity, reflection and transmission at a boundary.

Kinetic theory, Maxwell velocity distribution, transport coefficients, first and second laws of thermodynamics, thermodynamic functions, simple applications, microscopic approach to thermodynamics, Boltzmann probability.

Additional material is studied for the award of Distinction/High Distinction.

1.022 Electromagnetism and Modern Physics

Prerequisites: 1.001, 10.001. Co-requisite: 10.211A.

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 mechanic, Schrodinger's equation, simple solutions, hydrogen atom, spectra, electron spin, selection rules, exclusion principle, Zeeman effect molecules.

Additional material is studied for the award of Distinction/High Distinction.

Textbooks

French A. P. Vibrations and Waves, Nelson

Mandl F. Statistical Physics, Wiley

1.032 Laboratory

Prerequisites: 1.001, 10.001.

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.

Textbook


Arya A. P. Elementary Modern Physics, Addison—Wesley

For students intending to proceed to Level III physics:

Arya A. P. Fundamentals of Atomic Physics, Allyn & Bacon

1.112A Electromagnetism

Prerequisites: 1.001, 10.001. Co-requisite: 10.211A.

Not available to students unless completing a set of Physics Level II units.

Electrostatics in vacuum and in dielectrics. Magnetostatics in vacuum and in magnetic materials. Maxwell's equations and simple applications.

Textbook

1.112B
Modern Physics S1 L2½ T3½
Prerequisites: 1.001, 10.001. Co-requisite: 10.211A. Students cannot take 1.112B and 1.212C or 1.1022 or 1.932.
Not available to students unless completing a set of Physics Level II units.
Special theory of relativity, Lorentz transformation, relativistic mass momentum and energy; Schrödinger wave equation expectation values, operators, eigenfunctions, eigenvalues, free-particle, bound-particle and applications to physical systems, spectra, electron spin, spin-orbit coupling, exclusion principle, origins and spectra of X-rays, electron energy levels in solids.
Textbook
Arya A. P. Elementary Modern Physics Addison-Wesley

Physics Level III Units

1.013
Quantum Mechanics and Nuclear Physics F L1½ T½
Prerequisites: 1.012, 1.022, 10.211A.
Concepts and formulation, expectation values and measurement, steps, wells and barriers, tunnelling, harmonic oscillator, perturbation theory, hydrogen atom, angular momentum operators, spin and spin orbit coupling, vector model, fine structure, identical particles, helium atom, spectroscopy, electron states in molecules and solids.
Detecting instruments for nuclear particles, counting statistics, Rutherford scattering, radioactivity, radiative processes, reactions, optical model, parity, introduction to particle physics, mesons, baryons, quarks.
Additional material is studied for the award of Distinction/High Distinction.
Textbook
White R. P. Basic Quantum Mechanics McGraw-Hill

1.023
Statistical Mechanics and Solid State Physics S1 L3T1
Prerequisites: 1.012, 1.022, 10.211A. Co-requisite: 1.013.
Canonical distribution, paramagnetism, Einstein solid, ideal gas, equipartition, grand canonical ensemble, chemical potential, phase equilibria, Fermi and Bose statistics, blackbody radiation. Crystal structure, bonding, diffraction, lattice vibrations, phonons, free-electron model of metals, band theory, point defects, dislocations.
Additional material is studied for the award of Distinction/High Distinction.
Textbooks
Mandl F. Statistical Physics Wiley
Blakemore J. S. Solid State Physics Saunders

1.033
Electromagnetism and Optical Physics S2 L3T1
Prerequisites: 1.012, 1.022, 10.211A.
Wave equation, refraction and transmission at dielectric, metallic and plasma interfaces, Fresnel equations, skin depth, waveguides 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.
Textbook
Hecht E. & Zajac A. Optics Addison-Wesley
1.043 Experimental Physics  F  T6
Prerequisites: 1.012, 1.022, 1.032.
A course of instruction in 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 S1 L2T4
Prerequisites: 1.022 or 1.032.
Extension of AC circuit theory. Revision of transistors, parameters.
Multistage discrete amplifiers, bias, coupling, stability. Positive feedback, oscillators.
Integrated amplifiers, properties.

Textbook
Benedict R. R. Electronics for Scientists and Engineers 2nd ed Prentice-Hall

1.143 Biophysics S1 L2T1
Prerequisites: 1.012, 1.022.
Thermodynamics in Biology, Electrochemical potentials, Donnan equilibrium, irreversible processes, diffusion and applications to biological systems.
Membrane potentials, Nernst potential, Goldman and Nernst-Planck equation, generalized approach.
Active transport. Membrane structure. The nerve impulse, activation and inactivation, Hodgkin and Huxley equations.

1.153 Biophysical Techniques S2 L2T1
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, electrochemical techniques and electrophysiological methods and dielectric measurements.

1.163 Astrophysics S1 L1½T½
Prerequisite: 1.022.

Textbook
Taylor R. J. The Stars—Their Structure and Evolution Wykeham Science Series

1.173 Conceptual Framework of Physics S2 L2T1
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 macrocosmos, 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 S2 L2T4 or F L1T2
Prerequisite: 1.023.
Properties of technically important materials related to their structure. Review of atomic and electronic structures of crystalline materials. Electrons and holes in semiconductors. Structure of alloys, polymers, ceramics, glasses and liquids.

Textbooks
1.323
Physics of Measurement  S1 L2T4
Prerequisite: 1.032.


Textbooks
Blatt J. M. Introduction to Fortran IV Programming Goodyear

1.333
Applications of Radiation  S2 L2T4
Co-requisite: 1.033.

Textbook
No set texts.

1.513
Plasma and Laser Physics  S2 L3T1
Prerequisites: 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  S2 L3T1
Prerequisites: 1.012, 1.022, 10.211A, 10.111A, 10.111B.


1.113A
Wave Mechanics  S1 L2½T3½
Prerequisite: 1.112B. Co-requisite: 1.112C.
Not available to students unless completing a set of Physics Level III units. For details of arrangements consult the School of Physics.

Concepts and formulation, finite wells and barriers, tunnelling, harmonic oscillator and applications, hydrogen atom, perturbations, systems of identical particles, electron states in complex systems, bonding, molecules, periodic solids.

Textbook
No set texts.

1.113D
Astrophysics and Nuclear Physics  S2 L2½T3½
Prerequisites: 1.112B, 1.113A.
Not available to students unless completing a set of Physics Level III units. For details of arrangements consult the School of Physics.
The observational environment, optical astronomy, radio astronomy, X-ray astronomy, stellar evolution, radio sources, the sun. Detecting instruments and accelerators for nuclear particles, Rutherford scattering, nuclear atom, neutrino, radioactive processes, nuclear reactions, angular distributions, mesons, baryons, excited nuclear states.

Textbook
Tayler R. J. The Stars, Their Structure and Evolution Wyneham Science Series

School of Chemistry

Undergraduate Study

Level II Units

2.002A
Physical Chemistry  S1 or S2 L3T3
Prerequisites: 2.121 and 10.001, 10.011 or 10.021.

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.

Textbooks
Barrow G. M. Physical Chemistry 3rd ed McGraw-Hill
Shaw D. J. Introduction to Colloid and Surface Chemistry 2nd ed Butterworths
2.002B

**Organic Chemistry**

**S1 or S2 L3T3**

*Prerequisite: 2.131.*

Chemistry of the more important functional groups; aliphatic hydrocarbons, monocyclic aromatic hydrocarbons, halides, alcohols, phenols, ethers, carboxylic acids and their derivatives, nitro compounds, amines and sulphonlic acids.

**Textbooks**


Solomons T. W. G. *Organic Chemistry* Wiley

*Only if proceeding to further study of Organic Chemistry:*

Vogel A. I. *Elementary Practical Organic Chemistry* Pt II Qualitative Organic Analysis Longman

2.002D

**Analytical Chemistry**

**S1 or S2 L2T4**

*Prerequisites: 2.121, 2.131 & 10.001, 10.011 or 10.021.*

Chemical equilibria in analytical chemistry. Acid-base, complex formation, redox systems, solid/solution, and liquid/liquid equilibria; with applications to volumetric, gravimetric and complexometric analysis, and to liquid/liquid extractions.

**Textbooks**


Peters D. G., Hayes J. M., & Hietje G. M. *Chemical Separations and Measurements* Saunders

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-coordinate complexes, chelation, stabilization of valency states. Physical methods of molecular structure determination. Chemistry of Fe, Co, Ni, Cu, Ag, Au.

**Textbook**

Cotton F. A. & Wilkinson G. *Basic Inorganic Chemistry* Wiley

2.003A

**Physical Chemistry**

**S1 L3T3**

*Prerequisite: 2.002A.*

Thermodynamics, including non-ideal systems; advanced electrochemistry; statistical thermodynamics; applications to gases, liquids and chemical equilibria; states of matter.

**Textbook**

Barrow G. M. *Physical Chemistry* 3rd ed McGraw-Hill

2.003B

**Organic Chemistry**

**S1 or S2 L2T4**

*Prerequisite: 2.002B.*

Aliphatic 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 stereochemical 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 pyridine, quinoline, isoquinoline. Flavones and iso flavones pyrimidine; pyrrole, furan, thiophene. Indole, imidazole.

**Textbooks**


Roberts J. D. & Caserio M. C. *Basic Principles of Organic Chemistry* Benjamin

Joule J. A. & Smith G. F. *Heterocyclic Chemistry* Van Nostrand Reinhold

McQuillen F. J. *Aliphatic Chemistry* C.U.P.

Vogel A. I. *Elementary Practical Organic Chemistry* Pt II Qualitative Organic Analysis Longman

Whittaker D. *Sterechemistry and Mechanism* Clarendon

2.003C

**Inorganic Chemistry**

**S1 or S2 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, VIB and VIIIB and the noble gases.

**Textbook**


2.003D

**Instrumental Analysis**

**S1 or S2 L2T4**

*Prerequisites: 2.002A and 2.002D.*


**Textbook**

2.003E 
**Nuclear and Radiation Chemistry**
**S1 or S2 L2T4**

*Prerequisites: 2.121 and 2.131 and 10.001, 10.011 or 10.021.*


**Textbooks**
- Carswell D. J. *Introduction to Nuclear Chemistry* Elsevier
- Friedlander G., Kennedy J. & Miller J. M. *Nuclear and Radiochemistry* 2nd ed Wiley
- Harvey B. *Introduction to Nuclear Physics and Chemistry* Prentice-Hall

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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.

**Textbook**

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2.003J

**Fundamentals of Biological Chemistry**
**S1 or S2 L2T4**

*Prerequisites: 2.121 and 2.131. Excluded: 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 introduction to protein structure. Relevant properties, acid/base properties, pK values, zwitterion isoelectric points. Simple peptide synthesis.

Treatment of carbohydrates, establishment of structures reactivity. Chemistry of monosaccharides, disaccharides and polysaccharides. Methods of analysis chemical and physicochemical.

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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: the structures of crystals with unusual and valuable chemical and physical properties. Solid state reactions, surface properties and catalysis. Applications of EPR, NMR and mass spectrometry.

**Textbooks**
- Bond G. C. *Catalysis by Metals* Academic.
- Greenwood N. N. *Ionic Crystals, Lattice Defects and Non-stiochiometry* Butterworths
- Stout G. H. & Jensen L. H. *X-ray Structure Determination* Macmillan

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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, alkyl resins, analysis of mixtures. Waxes and sterols; selected natural and synthetic macromolecules; polymerization processes, including treatment of initiators, chain transfer agents, retarders. Vulcanization and sulphur-curing reactions. Photochemical processes; electroorganic chemistry. Fine chemicals, soaps and detergents. Aspects of metal catalysis in industry.

**Textbook**
- No set texts. A list of reference books is provided by the school.

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2.003M

**Organometallic Chemistry**
**S1 or S2 L2T4**

*Prerequisite: 2.002B.*

Synthesis, structure and reactions of metal alkyls and aryls; metal carbonyls, isonitriles and acetylides; compounds of metals...
with unsaturated hydrocarbons; organic chemistry of boron, silicon, phosphorus and arsenic; application of organometallic compounds in organic synthesis and homogeneous catalysis.

Textbooks
Cotton F. A. & Wilkinson G. Basic Inorganic Chemistry Wiley
Pauson P. Organometallic Chemistry Arnold
Swan J. M. & Black D. St. C. Organometallics in Organic Synthesis Chapman & Hall

2.013A
Introductory Quantum Chemistry S1 L2T4
Prerequisite: 2.001 or 10.011 and 10.011, 10.011 or 10.021.

Textbooks
Barrow G. M. Physical Chemistry 3rd ed McGraw-Hill
Dixon R. N. Spectroscopy and Structure Methuen

2.013B
Synthetic Organic Chemistry S2 L2T4
Prerequisite: 2.003B.
Introduction, aims, stereochemical and positional problems, recognition of sub-units. Modern functional group transformations with particular reference to positional and stereochemical control. Spectroscopic markers. Electrocyclic reactions, formation, contraction and expansion of rings, Diels-Alder and related cycloadditions, photochemistry, Woodward-Hoffmann rules, protecting groups. Representative syntheses of compounds of the theoretical and biological interest, e.g. cubane, Dewar benzene, carophyllene, reserpine, corrins.

Textbook
Carruthers W. Some Modern Methods of Organic Synthesis CUP

2.013C
Advanced Inorganic Chemistry S1 or S2 L2T4
Prerequisite: 2.042C. Co-requisite: 2.003C.
Reaction mechanisms involving metal complexes. Spectroscopic methods for investigating metal complexes, including infrared, electronic, and Mössbauer spectroscopy. Inorganic crystal chemistry: structures and properties of simple compounds. Cluster compounds, metal-metal bonding, extended electronic interactions. π-Complexes, carbonyls, nitrosoyls, ethylene complexes, and sandwich-type compounds; methods of preparation, reactions, evidence for structures and type of bonding involved.

Textbook
Benson D. Mechanisms of Inorganic Reactions In Solution McGraw-Hill

2.013D
Advanced Analytical Chemistry S1 or S2 L2T4
Prerequisite: 2.002D. Co-requisite: 2.003D.

Textbooks
Ewing G. W. Instrumental Methods of Chemical Analysis 4th ed McGraw-Hill
Kolthoff I. M., Sandell E. B., Meehan E. J. & Bruchenstein S. Quantitative Chemical Analysis Macmillan

2.013L
Chemistry and Enzymology of Foods S1 S2 L1T2
Prerequisite: 2.002B. Excluded: 2.043L, 2.031L, 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 foodstuffs. Treatment 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 enzymic and autoxidative origin anti-oxidants—natural and synthetic—thories on mechanisms of action, carbo-hydrates 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.

Textbooks
No set texts. A list of reference books is provided by the School.

2.013M
Thermochemistry S1 or S2 L2T4
Prerequisite: 2.002A.
Thermochemistry of metal complex and organometallic reactions: Dissociation of molecules and bond energies; solvation of ions and molecules; reactions in non-aqueous solution; substitution reactions; Lewis acid-base reactions; formation of inorganic polymers. Energy induced reactions. Mechanism of inorganic substitution, electron-transfer and free-radical reactions; reactions of co-ordinated ligands; template synthesis; porphyrin complexes.

Textbook
Benson D. Mechanisms of Inorganic Reactions In Solution McGraw-Hill


2.023A
Chemical Physics
S1 or S2 L4T1
Prerequisites: 2.002A and 10.211A.

Wave mechanics—linear operators; Schrödinger wave equation, applications, methods of solution; variation principle, linear combinations, perturbation theory. Many-electron problems—central field method; electron spin; Fermi-Dirac statistics; angular momentum operators; Coulomb repulsion two-electron operator; spin-orbit coupling Russell-Saunders and jj coupling; Zeeman effect; vector coupling and Wigner coefficients; allowed transitions. Group theory—symmetry operations; matrix representation; irreducible representation; characters of a group; non-rigid molecules; antisymmetry operators.

Textbook
Golding R. M. Applied Wave Mechanics Van Nostrand

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.

Textbook

2.023L
Biological and Agricultural Chemistry
S1 S2 L1T2
Prerequisite: 2.002B. Excluded: 2.053L, 2.013L, 2.043L.


Textbook
No set texts. A list of reference books is provided by the School.

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.

Textbook
Van Holde K. E. Physical Biochemistry Prentice-Hall.

2.033L
Applied Organic Chemistry
S1 S2 L2T4
Prerequisite: 2.002B. Excluded: 2.003L.

As for 2.003L but in greater detail and depth.

Textbook
No set texts. A list of reference books is provided by the School.

2.043A
Environmental Chemistry
F L3T3
Prerequisites: 2.002A and 2.002D.

Physico-chemical aspects of atmosphere chemistry; dispersion of colloids and solid matter, photochemical reactions. Hydrological cycle: 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.

Textbooks
Hamilton C. H. Chemistry in the Environment Freeman and either
Dickson T. R. The Computer and Chemistry Freeman
Schaum Outline Series Numerical Analysis McGraw-Hill or
Wallace S. B. Chemical Oceanography Harcourt Brace, Jovanovich

2.043L
Chemistry and Enzymology of Foods
S1 S2 L2T4
Prerequisite: 2.002B. Excluded: 2.013L, 2.023L, 2.053L.

As for 2.013L but in greater detail and depth.

Textbooks
No set texts. A list of reference books is provided by the School.


2.053A
Chemical Kinetics and Reaction Mechanisms  S1 or S2 L3T3
Prerequisite: 2.002A.

Textbooks
Gardiner W. C. Rates and Mechanisms of Chemical Reactions Benjamin
Sykes P. The Search for Organic Reaction Pathways Longman

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.

Textbooks
No set texts. A list of reference books is provided by the School.

2.063A
Advanced Molecular Spectroscopy  S2 L2T4
Prerequisite: 2.013A.
Theory: Born-Oppenheimer approximation; theory of transition probabilities; group theory; normal mode analysis.
Spectra: rotational, vibrational and electronic structure in molecular spectra, including microwave, infrared, Raman, UV-visible and photo-electron spectra. Kinetic spectroscopy. Lasers.

Textbook
Dixon R. N. Spectroscopy and Structure Methuen

2.111
Introductory Chemistry  S1 L2T4
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.

Textbooks
Aylward G. A. & Findlay T. J. V. SI Chemical Data Wiley
Laboratory Manual, Chemistry 2.111, 2.121 and 2.131 UNSW
Mahan B. H. University Chemistry 3rd ed Addison-Wesley

2.121
Chemistry IA  S1 or S2 L2T4

Textbooks
As for 2.111.

2.131
Chemistry IB  S1 or S2 L2T4
The rate of a chemical change and chemical kinetics, catalysis, order and molecularity, activation energy, the Arrhenius Equation, reaction mechanism. Electronic structure of atoms in terms of the quantum mechanical model. Structure of the Periodic Table and its relationship to electronic configuration. Chemical bonding, hybridization, molecular shape, multiple bonding, bond polarity, intermolecular forces. Properties of compounds of selected elements, acid-base character of oxides and hydroxy compounds, relative stability of oxidation states. Chemistry of carbon compounds, stereoisomerism reactions of aliphatic and aromatic hydrocarbons, alcohols, phenols, ethers, alkyl halides, aldehydes, ketones, carboxylic acids and their derivatives, esters, acyl halides, anhydrides, amines.

Textbooks
As for 2.111 and

School of Metallurgy

Undergraduate Study

4.911
Materials Science  L1T½
The atomic structure of metals. The grain structure of metals; origin; modification. Structure of alloys: theory. Structure, properties and heat treatment of commercially important alloys based on aluminium, copper and iron in particular. Corrosion. Control of structure and properties, commercial alloys, materials selection.

Textbook

111
Professional Studies

4.951 Materials Technology L2T2

School of Mechanical and Industrial Engineering

Undergraduate Study

5.010 Engineering A SSL4T2
Prerequisite: None.
Introduction to Engineering Design: Engineering method, problem identification, creative thinking, mathematical modelling, 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.
Textbooks
Gordon J. E. The New Science of Strong Materials, or Why You Don't Fall Through the Floor Penguin
Scientific American. Materials Freeman
Svensson N. L. Introduction to Engineering Design NSWUP

5.030 Engineering C
Engineering Drawing: Fundamental concepts of descriptive geometry, including reference systems, representation of point, line and plane; fundamental problems of position and measurement. Application of descriptive geometry to certain problems arising in engineering practice. Special emphasis on ability to visualize problems and processes involved in their solution. Instruction in the correct use of drawing instruments and the application of drawing standards. Measurements and dimensioning. Orthographic and isometric projections.
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.

Textbooks
Blatt J. M. Basic Fortran IV Programming (Miditran Version) Computer Systems (Aust.)
Clark C. The Theoretical Side of Calculus Wadsworth
Thomas G. B. Calculus and Analytic Geometry 4th ed Addison-Wesley

School of Mathematics

Undergraduate Study

10.001 Mathematics I L4T2
Calculus, analysis, analytic geometry, linear algebra, an introduction to abstract algebra, elementary computing.

Preliminary Reading List
Bell E. T. Men of Mathematics 2 vols Pelican
Courant R. & Robbins H. What is Mathematics? OUP
Polya G. How to Solve It Doubleday Anchor
Sawyer W. W. A Concrete Approach to Abstract Algebra Freeman
Sawyer W. W. Prelude to Mathematics Pelican

Textbooks
Blatt J. M. Basic Fortran IV Programming (Miditran Version) Computer Systems (Aust.)
Shields P. C. Elementary Linear Algebra 2nd ed Worth
Thomas G. B. Calculus and Analytic Geometry 4th ed Addison-Wesley

10.011 Higher Mathematics I L4T2
Calculus, analytic geometry, linear algebra, an introduction to abstract algebra, elementary computing.

Preliminary Reading List
As for 10.001 plus:
David F. N. Games, Gods and Gambling Griffin
Felix L. The Modern Aspect of Mathematics Science
Huff D. How to Lie with Statistics Gollancz
Reid C. From Zero to Infinity Routledge

Textbooks
Blatt J. M. Basic Fortran IV Programming (Miditran Version) Computer Systems (Aust.)
Clark C. The Theoretical Side of Calculus Wadsworth
Thomas G. B. Calculus and Analytic Geometry 4th ed Addison-Wesley
### School of Psychology

#### Undergraduate Study

**10.021 Mathematics IT**

- **Textbooks**
  - Blatt J. M. *Basic Fortran IV Programming (Midtran Version)*
  - Greening M. G. *First Year General Mathematics* NSWUP
  - Saltz D. *A Short Calculus* Goodyear

**10.111A Pure Mathematics II—Linear Algebra**

- **Textbook**
  - Churchill R. V. *Complex Variables and Applications* ISE McGraw-Hill

**10.111B Pure Mathematics II—Analysis**

- **Textbook**
  - Boas L. M. *Mathematical Methods in the Physical Sciences* Wiley
  - Spiegel M. R. *Theory and Problems of Vector Analysis* Schaum
  - Spiegel M. R. *Advanced Mathematics for Scientists and Engineers* Schaum

**12.001 Psychology I**

- **Textbooks**
  - Lumsden J. *Elementary Statistical Method* Rev ed WAUP
  - Mednick S. A., Higgins J. & Kirschenbaum J. *Psychology: Explorations in Behaviour and Experience* Wiley
  - Selected Scientific American reprints, as advised by the School

**12.052 Basic Psychological Processes II**

- **Prerequisite:** 12.001
- **Textbooks**
  - Gray J. A. *The Psychology of Fear and Stress* World Univ Library
  - Haber R. N. & Hershenson M. *The Psychology of Visual Perception* Holt Rinehart & Winston
  - Seligman M. E. P. *Helplessness* Freeman

**12.062 Complex Psychological Processes II**

- **Prerequisite:** 12.001
- **Textbooks**
  - Armistead N. *Reconstructing Social Psychology* Pelican
  - Higgin G. *Symptoms of Tomorrow* Plume/Ward Lock
**Professional Studies**

**12.152**

**Research Methods II**

*Prerequisite: 12.001.*

General introduction to the design and analysis of experiments; hypothesis testing, estimation, power analysis; general treatment of simple univariate procedures; correlation and regression.

**Textbooks**


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**School of Accountancy**

**Undergraduate Study**

**14.013 and 14.014**

**Accounting for Health Administration I**


**Textbooks**

Carrington A. S., Battersby G. G. & Howitt G. *Accounting—An Information System* Whitcombe & Tombs

Levy V. M. *Financial Management of Hospitals Law Book†*

Levy V. M. *Public Financial Administration* Law Book

**14.023 and 14.024**

**Accounting for Health Administration II**

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, budgeting and cost analysis in the hospital context.

**Textbooks**

Carrington A. S., Battersby G. G. & Howitt G. *Accounting—An Information System* Whitcombe & Tombs

Levy V. M. *Financial Management of Hospitals Law Book†*

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**School of Health Administration**

**Undergraduate Study**

**16.001**

**Management I**

Major theories and schools of management. Identification and examination of major organizational variables, including relationships between the organization and its environment, the planning process, formal and informal structures, authority relationships, technology, human resources, role performance and theory, co-ordination and communication, evaluation and control.

**Textbooks**

Huse E. F. & Bowditch J. L. *Behavior in Organizations: A Systems Approach to Managing* Addison-Wesley

Huse E. F. et al *Readings on Behaviour in Organizations* Addison-Wesley

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**16.002**

**Management II**

Operations research methodology and techniques as applied to health services. Typical competition, queuing, inventory, allocation, search and scheduling problems faced by health care administrators. Solution of problems using techniques such as game theory, simulation, linear programming and PERT. An introduction to computers and health services.

**Textbooks**

Australia. *Report of the Computer Services Planning Committee on the Provision of Computing Facilities and Systems for Health Services in the ACT* AGPS

Makower M. S. & Williamson E. *Operational Research* Hodder & Stoughton

Race D. *Electronic Data Processing in Victorian Hospitals* Hospitals and Charities Commission Melbourne

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**16.003**

**Management III**

Extensions of the material of Management I and II into the specific operation of health services. Examines concepts of health and discusses ecosystematic and other approaches to the managerial functions in the health service and hospital settings with attention to organization structures and technology, formal and informal relationships, co-ordination and control.

**Textbooks**

Grant C. *Hospital Management* Churchill-Livingstone

Rowbottom R. *Hospital Organization* Heinemann

† Principal textbook.
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.

Textbooks
- Blau P. M. Bureaucracy in Modern Society Random House
- Dahl R. A. Modern Political Analysis 2nd ed Prentice-Hall
- Rorke J. ed. Politics at State Level University of Sydney
- Spann R. N. ed. Public Administration in Australia 3rd ed Govt Printer

16.201 Law I


Textbooks
- Derham D. P., Maher F. K. H. & Waller P. L. An Introduction to Law 2nd ed Law Book Co
- Shiein B. & Lindgren K. An Introduction to Business Law 2nd ed Law Book Co

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 operations and sterilization 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 McNagten Rules and the defence of automatism.

Textbook
- Fleming J. G. The Law of Torts 4th ed Law Book Co

16.301 Political Science

The study of politics, with special reference to Australian political institutions and administrative 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.

Textbooks
- Blau P. M. Bureaucracy in Modern Society Random House
- Dahl R. A. Modern Political Analysis 2nd ed Prentice-Hall
- Rorke J. ed. Politics at State Level University of Sydney
- Spann R. N. ed. Public Administration in Australia 3rd ed Govt Printer

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.

16.501 Economics (Health Administration)

Examination of the working of a modern economic system, with some reference to Australian economic institutions and conditions.

Topics include: consumer demand, production and cost analysis, market equilibrium, pricing of factors of production, social accounting, income determination, money and financial institutions, international trade and payments, economic fluctuations, inflation and growth; and Australian economic institutions, including trade unions, the arbitration system, the Reserve Bank, the Industries Assistance Commission. The economics of health, social welfare and population, public sector economics, cost benefit analysis.

Textbooks

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.
Textbooks
Berger P. L. *Invitation to Sociology* Penguin
Faraday Ann. *Dream Power* Pan
Hurd G. *Human Societies* Routledge
*Psychology Today: An Introduction* 3rd ed CRM Books

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.

Textbooks
Cox C. & Mead A. *A Sociology of Medical Practice* Collier-Macmillan
Diessendorf M. *The Magic Bullet* Soc for Social Responsibility in Science
Ilich I. *Medical Nemesis* Calder & Boyars
James M. & Jongeward D. *Born to Win* Addison-Wesley
Malleson A. *Need Your Doctor be so Useless* Allen & Unwin
Robinson D. *Patients, Practitioners and Medical Care* Heinemann
Susser M. W. & Watson W. *Sociology In Medicine* 2nd ed OUP 1974

16.701
**Statistics**


Textbooks
Pollard A. H. et al *Demographic Techniques* Pergamon

16.801
**The Australian Health Care System**

Historical introduction; the present pattern of health care delivery; environmental health services; institutional care; community health services for special groups; specialization and supporting services; health service personnel; health service finance; critique of the Australian health care system.

Textbooks
Dewdney J. C. H. *Australian Health Services* Wiley
Sax S. *Medical Care in the Melting Pot* A & R

16.921
**Health Care Planning I**

The concept, determinants and assessment of community health. Application of the epidemiological approach to the identification and definition of community health problems. The processes of improving community health; problem identification, definition and analysis; determination of priorities; specifications of objectives; development of plans; plan evaluation; plan adoption; implementation of program, evaluation and revision. The planning and evaluation of personal health and environmental control programs. Political and economic considerations in planning health services. Manpower planning. Location, co-ordination and integration of health care services and facilities. Evaluation of community health service agencies and activities. Application of decision theory, systems analysis and operations research techniques to community health planning.

Textbooks
Donebedian A. *A Guide to Medical Care Administration—Medical Care Appraisal* APHA
Grundy F. & Reinke W. A. *Health Practice Research* WHO
Myers B. *A Guide to Medical Care Administration—Concepts & Principles* APHA
Reinke W. A. *Health Planning: Qualitative Aspects and Quantitative Techniques* Johns Hopkins University

16.922
**Health Care Planning II**

The planning and design process; composition and responsibilities of planning teams; briefing, proposal and approval of design projects; history of hospital design; planning for change and growth; national, regional and local planning requirements; location and siting of health care facilities; organizational requirements of hospital layout; supply and communication requirements; environmental design and safety; ergonomics of hospital equipment; hospital building structures and engineering services; building and equipment maintenance; modernization and efficiency; building contract management; cost planning; commissioning, evaluation of buildings in use.

Textbooks
Bayes K. ed *Hospital Research and Briefing Problems* King Edward's Hospital Fund, London 1971
16.923
Health Care Planning III
Planning, design and evaluation for particular functions in health care facilities; nursing units, patient's room and equipment design; general and special nursing units; diagnostic and treatment facilities; outpatients and emergency services; health centres and GP surgeries; administrative, educational and residential accommodation; supply departments and works services.

Textbooks
Baynes K. ed Hospital Research and Briefing Problems. King Edward's Hospital Fund, London 1971

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.

Textbooks
Kilpatrick S. J. Statistical Principles In Health Care Information Uni. Park Press

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; FAS/MAP and other hospital information systems.

Textbooks
Benjamin B. Health and Vital Statistics Allen & Unwin
Griffith J. R. Quantitative Techniques for Hospital Planning and Control Health Lexington Books
Pollard A. H. et al Demographic Techniques Pergamon

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 sub-system 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.

Textbooks
Dewdney J. C. H. Australian Health Services Wiley
Sax S. Medical Care In the Melting Pot: An Australian Review A & R

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.

Textbook
Donabedian A. Aspects of Medical Care: Specifying Requirements for Health Care Harvard UP

16.931G
Introduction to Organization Theory
Critical evaluation of existing organization patterns in the health care field. The major schools of management thought (eg classical, human relations, contingency theory) through an analysis of the work of representative writers. An analysis of leadership, change and conflict in organizations.

Textbooks
Perrow C. Complex Organizations: A Critical Essay Scott Foresman
Pugh D. S. ed Organization Theory Penguin
Pugh D. S. et al Writers on Organizations Penguin
16.932G

Introduction to Behavioural Science

Introduction to the behavioural sciences of psychology and sociology. Study of societies and 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 XXIII A of the Constitution; Federal and State financial relations, Section 86 of the Constitution: The law of contract; employers' liability and workers' compensation: the tort of negligent advice.

Textbooks

Fleming S. G. The Law of Torts 4th ed Law Book Co
Derham D. P., Maher F. K. H. & Waller P. L. An Introduction to Law 2nd ed Law Book Co
Shtein B. & Lindgren K. An Introduction to Business Law 2nd ed Law Book Co

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.

Textbooks

Fleming S. G. The Law of Torts 4th ed Law Book Co
Derham D. P., Maher F. K. H. & Waller P. L. An Introduction to Law 2nd ed Law Book Co
Shtein B. & Lindgren K. An Introduction to Business Law 2nd ed Law Book Co

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

The course is 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 regionalized administration 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; the quality assurance, peer review and accreditation; the organization of personal health services—specialization, general practice and medical education.

No textbooks 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 functions of health care personnel in both the administration and delivery of services, and accreditation of hospitals and other health service institutions.

Textbook

Duckett S. J. & Scarc G. G. eds Doctors in Hospitals: Organization & Administration (Australian Studies in Health Service Administration No 28) UNSW
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; a consideration of screening surveys; longitudinal and case-control studies, etc. The uses of epidemiology in planning and evaluation.

Textbook
MacMahon B. & Pugh T. F. Epidemiology: Principles and Methods Little Brown

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 models 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
Health Manpower

Systems approach to manpower planning in the health services. Analysis of tasks performed by health professionals, 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. Analysis of Australian studies in health manpower. Manpower issues such as licensure and regulation, maldistribution of health personnel, role of women in health sector.

Textbooks
World Health Organisation Technical Report Series No 481
The Development of Studies in Health Manpower WHO
Australian Hospital and Health Services Commission Australian Health Manpower AGPS
Rafferty J. ed Health Manpower & Productivity Heath

16.946G
Health Information Systems

Introduction to computers, input/output mechanisms, processing systems. Issues of privacy and confidentiality, systems study and costs of computers. Application of computers to the health services. Health and hospital 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, regionalization 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.

Textbooks
Fry J. Medicine in Three Societies MTP
Somers A. R. Health Care In Transition: Directions for the Future HRET

16.948G
Operations Research for Health Planning and Administration

Operations Research methodology and techniques as supplied 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.

Textbooks
Buffa E. S. Operations Management: Problems and Models Wiley
Griffith J. R. Quantitative Techniques for Hospital Planning and Control Heath
16.949G
Organizational Analysis in Health Services

Intensive investigation of one or more organizations engaged in delivery of health care. Measurement of effectiveness and efficiency. Relevance of studies of business organizations in analyzing health care organizations.

Identification of organizational attributes and their measurement, data collection and analysis. Studies of satisfaction, centralization, co-ordination, complexity, flexibility, etc. Analysis of organization in terms of contextual, structural and process data, interpretation of organizational functioning and integrative patterns. Field experiment methods in organizational research. Organization development programs and implementing change in organizations.

Textbooks
Katz D. & Kahn R. L. The Social Psychology of Organizations Wiley
Levinson H. Organizational Diagnosis Harvard UP
March J. G. & Simon H. A. Organizations Wiley
Price J. L. Handbook of Organizational Measurement Health
Vroom Victor H. Methods of Organizational Research Pittsburgh UP

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.

Textbooks
Downs A. Inside Bureaucracy Little Brown
Hospitals and Health Services Commission A Report on Hospitals in Australia AGPS

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.

Textbooks
Grant C. Hospital Management Churchill-Livingstone 1973

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.

Textbooks
Hocking A. Investigating Economics Cheshire 1975

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.

16.994G
Project
56 hours.

These electives permit students to obtain credit for approved research projects.

Department of Industrial Arts

Undergraduate Study

21.011
Industrial Arts I

The nature of rigorous and structural design. The elements of creative design—design as aesthetic order—its relationship to
perception theory and measurement of aesthetic judgment—the notion of value and value keys in design. The theory and nature of colour perception. A brief treatment of the historical background of industrial organization in society—the nature of work and some important psychological, sociological and economic factors in man-machine relationships. Basic industrial work situations and an analysis of the methods used to classify and describe them. Man-machine relationships as a problem in design—human qualities in opposition to and in co-operation with machines—an introduction to the problems associated with the transfer of information, energy and matter between man and machine.

Laboratory and Studio—The execution of prescribed projects in various media illustrative of the principles of design. The study and practice of the principal techniques used in work measurement.

Textbooks
Australian Council of the Arts Bauhaus Visual Arts Board. Australian Council of the Arts, 1975
Childe G. What Happened in History Pelican
Henderson P. William Morris, His Life, Work and Friends Thames & Hudson
Marks R. & Buckingham-Fuller R. The Dymaxion World of Buckminster-Fuller Anchor Books*
Pevser Sir N. Pioneers of Modern Design Pelican
Pye D. The Nature of Design Studio Vista
Read H. E. Art and Industry 5th ed Faber

21.012
Industrial Arts II

The principles of three-dimensional design and design analysis. Product design—visual fundamentals and visual presentation in two and three dimensions—functional and psychological aspects of product design. Work factor systems, basic motion-time study, motion-time analysis, and methods-time measurement with particular reference to their human significance.

Laboratory and Studio—The execution of three-dimensional projects in various media. Projects in product design. Experimental work and directed observation involving the various methods of work analysis.

Textbooks
Archer L. B. Systematic Methods for Designers. Council of Industrial Design UK
Gidson S. Mechanisation Takes Command CUP
Jones J. C. Design Methods Wiley Interscience
Langford M. J. Basic Photography Focal Press
Leach B. A Potter's Book Faber
McMeekin I. J. Notes for Potters in Australia Vol 1 NSWUP†
Mumford L. Techniques and Civilization Harbinger Handbook Harcourt, Brace & World
Parmelee C. W. Ceramic Glazes Industrial Publications†
Peltz P. J. Anthropological Research Harper & Row
Pye D. The Nature and Art of Workmanship CUP
Pye D. The Nature of Design Studio Vista
Hommel R. P. China at Work Day
Hudson K. Industrial Archaeology Uni Paperbacks
Jones J. C. & Thornley D. G. Conference on Design Methods Pergamon
Leach B. H. A Potter's Portfolio Lund Humphries†

Nelson G. Problems of Design Whitney
Pevser N. Pioneers of Modern Design Pelican
Scheiber E. H. Organizational Psychology 2nd ed Prentice-Hall
Untracht O. Enamelling on Metal Greenberg

21.013
Industrial Arts III

The creative process and the factors influencing it—detailed study of and solutions to the problems associated with product design. The philosophy of comprehensive design and its relationship to work—an integrative overview of the attitudes and viewpoints of the designer and the techniques of analysis, synthesis and evaluation currently used. Industrial organization theory—the principal theories of industrial organization from the eighteenth century to the present day. The nature of management and its various functions and methods or organization in western industrial society.

Laboratory and Studio—The execution of advanced problems in product design in various media—analysis and criticism. Field work in industry involving the analysis and evaluation of methods of Industrial organization.

Textbooks
Banham R. Theory and design in the first machine age Praeger
Critchlow K. Order in Space Thames & Hudson
Iten J. Design & Form Reinhold
Langford M. J. Basic Photography Focal Press
Papanek V. Design for the Real World Paladin*
Peltz P. J. Anthropological Research Harper & Row
Sommer R. Design Awareness Holt, Rinehart & Winston

21.201
Freehand Drawing

Teaches the students to see and draw objects as they are, to perceive the structure of natural forms, and to appreciate the causes behind their formation. The practical work in various media, pencil, pen, brush and charcoal, is intended also to develop the ability to express ideas in a visual way. This can later form a basis for the execution of projects in industrial design.

Topics include: drawing of single objects and groups of objects, figure drawing, drawing from memory, and quick sketching; depiction by line and by light and shade; the principles of free perspective drawing.

Textbooks
Gill R. W. Rendering with Pen and Ink (The Thames and Hudson Manual of) Thames & Hudson
Gombrich E. H. The Story of Art Phaidon
Ozenpant A. Foundations of Modern Art Dovert†

* Paperback.
† For students specializing in Ceramics.
Professional Studies

21.211 Drawing and Design
Advanced problems in graphics and tectonic design. Assignments are carried out in the studio, but tutorials are given where necessary.

Textbook

21.902 Seminar

21.903 Project

21.311 Industrial Arts I
An introduction to the subject area of industrial arts. The central theme is the inter-relationship between people and artefacts. The course comprises the six following compulsory units:

21.3111 Workshop Practice
Safe working practices using selected woodworking and metalworking machines.

21.3112 Introduction to Design Methods
The need for design methodology and its application in the industrial situation, strategy planning, the methods with examples of their application, the problems of problem solving.

Textbooks
Bruce-Archer L. Systematic Method for Designers Council of Industrial Design UK 1965
Jones C. J. Design Methods Wiley Interscience

21.3113 Basic Design
Studio: the development of visual literacy and expression through the study and articulation of the basic aesthetic elements—colour, light, proportion, texture, mass, space, structure—and their representation in two and three dimensions.

Textbook
Harlan C. Vision and Invention Prentice-Hall

21.3114 Introduction to Graphic Techniques
Studio: demonstrations and practical work in elementary graphic method and technique—photography, graphic layout and design, with emphasis on freehand drawing.

Textbooks
Garland K. Graphics Handbook Studio Vista
Gill R. W. Rendering with Pen and Ink Thames & Hudson
Feininger A. Principles of Composition in Photography Thames & Hudson

21.3115 History of Industrial Arts
Definitions, content and philosophy of industrial arts as an area of study. The development of methods of producing artefacts. Theoretical models of the relationship between social and technological factors.

Textbook
Emery F. E. ed Systems Thinking Penguin

21.3116 Research Methods
Research in the field of Industrial arts. Data collection and reduction. The action—research model and its implications.

These subjects are divided into the following nineteen units. See Course outlines for choice of units.

21.3127 History of Art and Design
A brief chronological survey of the major art and design movements from the earliest times to the present day.

Textbook
Gombrich E. H. The Story of Art Phaidon

Ethnotechnology
Ethnotechnology is the study of the way in which a particular society designs and produces its artifacts. As well as making a study of materials, tools and techniques, the historical, economic and sociological aspects of artifact production are examined.

The theoretical areas of ethnotechnology include: 1. methodology and techniques of ethnotechnology 2. a systematic examination of the material culture and artifact production in societies such as those of the Australian aborigine and the people of Pakistan, and 3. an examination of traditional technology in Australia.

The laboratory and fieldwork areas include group and individual projects involving: 1. experimental laboratory work on the examination and production of artifacts using established techniques, and 2. fieldwork examining a wide range of traditional technologies using ethnographic techniques.
21.3121 Ethnotechnology I

Prerequisite: 21.3116.

The relationship between science, technology and society. The relationship between ethnotechnology, ethnography and archaeology. The methodologies of the social and physical sciences and their application to ethnotechnology, a brief analysis with reference to a traditional material culture.

Laboratory and fieldwork: Investigation of various techniques used by traditional craftsmen in the production of artifacts.

21.3131 Ethnotechnology II

Prerequisite: 21.3121.

Social and technological aspects of ethnotechnology. The philosophies encompassing the etic and emic approaches to fieldwork. Methodologies of ethnographic reporting. The development of early Australian crafts and technologies.

Laboratory and fieldwork: The investigation of the Australian traditional technologies of gold-mining and refining, timber-milling, brick-making and pottery, their background and development.

21.3141 Ethnotechnology III

Prerequisite: 21.3121.

The application of theoretical models to ethnotechnology. The study of socio-cultural systems with special reference to their material cultures. An advanced study of traditional Australian technology.

Laboratory: An investigation of the materials, techniques, tools and processes used by selected cultures in the production of artifacts. Advanced field research into the traditional Australian technologies. Advanced studies in the ethnotechnology of Pakistan.

Craft

The craft units are intended to develop appreciation of craft activities and integrate aesthetic experience with technological knowledge. While it is intended that students should be able to experience several crafts, such as ceramics, textiles and glassworking, at present only ceramics can be offered.

21.3122 Craft IA (Ceramics)

The characteristics of earthenware, stoneware and porcelain. Glazes, kilns and forming methods. An introduction to the geology of ceramic materials and their properties. Practical experience in hand building methods, introductory throwing and design in pottery.

Textbooks
Leach B. H. A Potter's Book Faber McMeekin I. J. Notes for Potters in Australia NSWUP

21.3132 Craft IIA (Ceramics)

Prerequisite: 21.3122.

The history of pottery focusing on China and its relationship to other countries. The emergence of a ceramic industry in Europe. Body formulation, glaze chemistry and calculations. Further practical experience with emphasis on throwing and design skills.

Textbooks
Parmelee C. W. Ceramic Glazes Industrial Publications

21.3142 Craft IIIA (Ceramics)

Prerequisite: 21.3132.

Present day craft and industrial practice. Kilns and firing techniques. Setting up and running a craft pottery. Further practical experience with emphasis on throwing and design skills.

Industrial Design

The industrial design units are made up of lectures, demonstrations, group discussions and criticism, with design projects as the subject core.

The theoretical aspects are concerned with:
1. The historic, social, psychological and economic aspects of industrial design and 2. The methodology and techniques of industrial design.

The design projects are set in many differing industrial and social frameworks, and give the student an opportunity to solve problems across the whole spectrum of Industrial Design. The understanding of the problem solving process and the individual student's own experience of it is considered to be of as much importance as the final solution. The brief for each project details the production and marketing situation, the criteria for design, the academic aims of the project, background information, a time schedule and the requirements for presentation of the student's analysis and final solution.

Visits to industrial organizations and design offices are undertaken in conjunction with other units of the Industrial Arts course.

21.3123 Industrial Design I

Prerequisites: 21.3112, 21.3113, 21.3114 or equivalents.

The emergence and development of the industrial design profession from 1850 to the present day. Modeling techniques, a series of demonstrations of clay, plaster, timber, polystyrene, polyurethane, glass reinforced plastics and epoxy resin modelmaking.

Studio: Elementary design project work applying industrial design criteria and method to the solving of design problems. The solutions to be evaluated by means of prototypes, drawings and reports.

Textbook
Pevsner N. The Sources of Modern Architecture and Design Thames & Hudson
Professional Studies

21.3133
Industrial Design II
Prerequisites: 21.3123, and 21.3144 or equivalents.
A study of industrial design case histories in Australia, Europe and USA. Local cases will be examined in conjunction with the Industrial Design Council of Australia.

Design and materials. An examination of the design potential of selected materials from an industrial design viewpoint.

Studio: Advanced design project work involving the reconciliation of multi-faceted industrial design problems, in a variety of materials. The solution to be evaluated by means of models, prototypes, graphics and reports.

21.3143
Industrial Design III
Prerequisite: 21.3131.
An international survey of design education from 1850 with particular reference to the contemporary situation.

Theories of Industrial Design with emphasis on the contemporary situation. The nature of ‘good’ design, the ethics of design, styling and design, design and the multi-nationals, design and the developing countries.

Studio: A major and minor design project of the student's own choice. The major project to be undertaken in conjunction with an external industrial organization or design office.

21.3134
Graphics II
Prerequisite: 21.3124.
Advanced studies of dynamic symmetry, analysis of geometric solids, analysis of two-dimensional pattern in nature and man made objects, symbols and symbolism, visual illusion in art and nature, graphic techniques applied to industrial design.

A study of graphic design case histories.

Studio: Analytical work in the subjects covered by the lectures and design project work applying graphic design criteria and methods to the solving of design problems.

21.3144
Graphics III
Prerequisite: 21.3134.
Social and psychological aspects and effects of graphic design, with particular reference to advertising and the ethics of graphic design. Investigations of the effectiveness of visual communications in films, television, posters, books, computer systems.

Legibility of print, computer graphics, graphic visualization and representation of abstract data and ideas. Advanced photography, typography, techniques of printing and photomechanical reproduction and graphic communication.

Studio: Project work based upon lecture course and a major project to be undertaken in association with an external organization of design office.

Textbooks
Feininger A. Manual of Advanced Photography Thames & Hudson
Hard W. ed Graphis Diagrams, Graphis Press
Spencer H. Visible World: Problems of Legibility Lund Humphries

Industrial and Social Organization

The units in industrial and social organization are concerned with the theory and practice of human organization in industry and society. The inter-relationship between people and technology and the associated problems and their solutions provides the general framework. Teaching in these units is by way of lectures, case studies, various experiential exercises and visits to industrial organizations.

21.3124
Graphics I
Prerequisites: 21.3112, 21.3113, 21.3114, or equivalents.
The history and background of contemporary graphic design. Detailed study of graphic method and techniques—perspective, geometric projections, typography, photography, descriptive geometry, graphic design and layout, printing and photomechanical reproduction.

Studio: Project work using the above techniques to solve two-dimensional design problems, and to externalize, abstract, synthesize and communicate three-dimensional design problems and concepts.

21.3125
Industrial and Social Organization I
Prerequisite: 21.3115.
The general development of twentieth century industrial organization and society. The nature of work and some important psychological, sociological and economic factors in industrial dynamics.

Textbook
Mumford L. Technics and Civilization Harbinger
21.3135
Industrial and Social Organization II
Prerequisite: 21.3125.

The nature of management and the development of management and organization theory. The role of trade unions in social and technological change. The environment of industry.

Textbooks
Hutchinson J. G. Organisations: Theory and Classical Concepts
Holt, Rinehart and Winston
Shepard J. M. Organisational Issues in Industrial Society
Prentice-Hall

21.3145
Industrial and Social Organization III
Prerequisite: 21.3135.


21.3147
Appropriate Technology
Examination of problems in the relationship between people and technology in developed and developing countries and at various levels of analysis. The concept of appropriate technology as a solution to such problems and the development of solutions which are evaluated on criteria of suitability, feasibility and acceptability.

Textbooks
Clarke R. ed Notes for the Future Thames & Hudson
Dickson D. Alternative Technology Fontana/Collins

21.3126
Project
The project provides the opportunity for practice in research methods, teamwork, and planning, organizing and conducting study in the field of industrial arts.

21.3146
Advanced Project
The advanced project provides the opportunity to conduct in depth study in the field of industrial arts.

Graduate Study

21.501G
Industrial Design
This area of the course is drawn from the existing body of knowledge concerning industrial design. In particular, it emphasizes design principles and the main functions, skills and responsibilities of the designer for industry. The subject matter is communicated through lectures, tutorials and practical assignments, the aims of which are to give the students a broad view of design in an industrial society, an aesthetic conviction and sensibility and the skills and methods required for the practice of industrial design.

Historical, social and aesthetic bases of industrial design.
Design Methodology.
Design Principles.

21.511G
Design Projects

A continuous series of design exercises and projects, graduated in scale and difficulty and with varying emphasis on particular aspects of design technology.

These projects form the central part of the course. The subjects chosen relate to the current lecture or case study programs, so that theory and practice can be integrated. The design projects provide an experience in which technology, design method, aesthetics and social need are synthesized and in which inter-relationship must be sought and inconsistencies resolved. The student faces problems involving judgment, choice and decision, some of which can be based on objective, analytical study, whilst other studies are more subjective, intuitive and emotive.

The projects are supervised by the academic staff of the Department with assistance from an appropriate practising designer and, when necessary, academic staff from other sections of the University. Tutorials as well as discussions with individual students arise from the projects, especially during the design development phase. Opportunity is given for students to act as a member of a design team.

At the commencement of each design project the students are briefed in detail as to the intention, and object of the exercises; this brief also includes basic information, controlling factors, a time schedule and requirements for presentation.

21.501G Industrial Design

21.511G Design Projects

Textbooks
Britt S. H. ed Consumer Behaviour and the Behavioural Sciences Wiley
Gist R. R. Marketing and Society Holt, Rinehart & Winston
Jones J. C. Design Methods Wiley Interscience

21.521G
Seminar

In general, seminars are devoted to design theory and philosophy and to the presentation by students of papers on design problems. Seminars are closely integrated with the other sections of the course work. From time to time, such matters as general design problems, current issues in design, unusual design problems and addresses by visiting designers also constitute the topics of seminars.

21.531G
Creative Art (Elective)
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.
Practical: Mesoscopic and microscopic examination of rock forming and ore minerals, igneous and metamorphic rocks.

Photogeology: The use of air photos for geological mapping and geomorphological evaluation of land. Techniques and principles of photo interpretation, multiband photography; landform genesis and photo interpretation of foils, faults, joints, bedding, limestone, intrusive igneous rocks, volcanics, alluvial fans and terraces, slopes, landslides, coastal arid and tropical landscapes; relations between geology, drainage, soil and vegetation; crebody expression, gossans, colouration halos.

Textbooks

Structural Geology
Regan D. M. Structural Geology: An Introduction to Geometrical Techniques 2nd ed Wiley
Hobbs B. E., Means W. D. & Williams P. F. Outline of Structural Geology Wiley

Mineralogy, Igneous and Metamorphic Petrology
Bloss F. D. An Introduction to the Methods of Optical Crystallography Holt, Rinehart & Winston

Photogeology
Von Bandat H. F. Aerogeology Gulf Pub Co

25.022
Geology IIB

Geological report writing and cartography.

25.023
Geology IIB

Geophysics
Global Geophysics: The physics, shape, structure and constitution of the earth: seismology, gravity, geology, geothermy, geomagnetism, paleomagnetism, geo-electricity 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, electromagnetic, gravity, magnetic and radioactive with applications, mining, petroleum, 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.

Laboratory: Hand specimen study of ores and associated features; introductory mineralogy.

Mineralogy & Petrology
Textbooks
Geophysics
Bott M. H. P., The Interior of the Earth Arnold
Dobrin M. B., Geophysical Prospecting McGraw-Hill
Stratigraphy & Palaeontology
As for Stratigraphy and Palaeontology in 25.022 with:
Krumbein W. C. & Sloss L. L. Stratigraphy and Sedimentation 2nd ed Freeman

25.033
Geology III
L6T6

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. Leveling. Field computations. Topographic maps.

Geochemistry and Petrology


Advanced Structural Geology

Analysis of structural elements at the microscopic, mesoscopic and macroscopic scales. Modern methods of analysis, especially petrofabric analysis and AVA. Detailed studies of the analysis of metamorphic terrains, eg Otago Schists; Cooma Complex.

Sedimentary Basin Analysis and Geology of Hydrocarbons


Field Mapping and Remote Sensing

Field Mapping: Field mapping in a complex geological terrain, with concentration on the structural geology of deformed and metamorphosed 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 and structural geology.

In addition, one of the following topics will be selected after consultation with the Head of School:

1. Economic Geology B. Mineragraphy, Experimental Petrology


2. Micropalaeontology

Morphology, stratigraphic distribution and significance of the principal microfossil groups: foraminifers, ostracods, conodonts, spores and pollen, dinoflagellates, coccoliths and chitinozoa. Extraction techniques.

3. Surficial Geology


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.

Textbooks
Mathematical Geology and Geological Surveying
Davis J. C., Statistics and Data Analysis in Geology Wiley
Blatt J. Introduction to FORTRAN Programming Prentice-Hall

Geochemistry and Petrology
Ahrens L. H. Distribution of the Elements in our Planet McGraw-Hill
Zussman J. Physical Methods in Determinative Mineralogy Academic
Loughnan F. C., Chemical Weathering of the Silicate Minerals Elsevier
Miayashiro A. Metamorphism and Metamorphic Belts Allen & Unwin

Advanced Structural Geology
As for Geology II together with:

Sedimentary Basin Analysis and Geology of Hydrocarbons
As for Structural Geology II and Stratigraphy II & III together with:
Ager D. V. Principles of Palaeoecology McGraw-Hill
25.404
Geology IV Honours F

A field assignment with appropriate work in the laboratory on material collected, the results of both the field and laboratory investigations to be presented in a graduation thesis. Advanced lectures, practical work and seminars. Short laboratory assignments on specific problems may be given.

Further details of the Honours course may be had from the Head of School.

Textbooks
- Mining and Petroleum Geology
  Lawrence L. J. Exploration and Mining Geology Aust Inst Min Met Melbourne

25.151
Geoscience IA L3T3

This course is provided for students who do not intend studying geology beyond first year. The first part during Session 1 is identical to the first part of 25.111 Geoscience I, but during Session 2 certain additional topics are presented, while others are treated in less depth than in 25.111 Geoscience I. No further units in Geoscience are available after this course.


Petrology: Field occurrence, lithological characteristics and structural relationships of igneous, sedimentary and metamorphic rocks. 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 Work: Preparation and interpretation of geological maps and sections. Map reading and use of simple geological instruments. Study of simple crystal forms and symmetry. Identification and description of common minerals and rocks in hand specimen. Recognition and description of examples of important fossil groups. Supplemented by two half day and two full day field tutorials, attendance at all of which is compulsory.

Textbooks
- Rutley F. Rutley's Elements of Mineralogy Read H. H. ed Murby
- Tyrrell G. W. The Principles of Petrology Methuen

School of Geography

Undergraduate Study

Level I Units

27.801
Introduction to Physical Geography

Mechanisms on the physical environment, with particular reference to Australia and to the Sydney region. Geologic controls of landform development; fluvial slope and coastal processes and their landforms; cyclic and equilibrium approaches to landform studies. Global energy and atmospheric circulation; weather and climate in Australia and the Sydney region. The hydrologic cycle; processes and factors of soil formation and soil profile development. The ecosystem; controls of vegetation in the Sydney region.

Laboratory classes include the study and use of topographic maps, geological maps, and air photographs; the use of climatic data and the weather map; soil description; basic cartographic methods. Two field tutorials, equivalent to 16 tutorial hours, are a compulsory part of the course. Students must provide basic drawing equipment.

Textbook
- Van Riper J. E. Man's Physical World McGraw-Hill

27.802
Introduction to Human Geography

Problems of data, scale, distance and economic development are the main themes. Development of human geography: traditions, approaches and basic problems, the human and natural environment. Spatial interaction, including patterns of movement, gravity concept and diffusion. Pattern and structure of human activity: effect of level of economic development, man/land relationships and social and cultural factors on agriculture, manufacturing and tertiary services. Population/resources problem in context of economic development. Australian and South-East Asian examples are used where relevant.

* Paperback.
School of Biochemistry

Undergraduate Study

41.101
Introductory Biochemistry S1 L4T8
Prerequisites: 17.021, 2.001.

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

Textbook
Stryer L. Biochemistry Freeman

41.111
Biochemical Control S2 L2T4
Prerequisite: 41.101.

The relation between structure and function of enzymes, hormones, vitamins and membranes. Metabolic networks and control mechanisms. Practical work to amplify the lecture course.

Textbooks
As for 41.101, plus:

41.102A
Biochemistry of Macromolecules S1 L3T9
Prerequisites: 41.101 & 2.002B.

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

Textbooks
The Chemical Basis of Life: An Introduction to Molecular and Cell Biology Readings from Scientific American Freeman

41.102B
Physiological Biochemistry S2 L3T9
Prerequisites: 41.101 & 2.002B.

Haemoproteins electron transport, oxidative phosphorylation. Nature and function of co-enzymes. Interrelationships in mammalian intermediary metabolism. Biochemical control mech-

anisms, including hormones and allosteric interactions. Enzyme kinetics. Selected aspects of differentiation and development in higher organisms. Practical work to illustrate the lecture course and to provide experience in modern biochemical techniques.

Textbooks
As for 41.102A above.

41.102C
Plant Biochemistry S2 L2T4
Prerequisites: 41.101 & 2.002B.

The biochemistry of the major pathways characteristic of plants; topics include the energetic and carbon path of photosynthesis, glyoxalate 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.

Textbooks
No set texts. A list of references is provided by the school.

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 of mobilization of reserve materials; biosynthesis of amino acids, its regulation and their conversion into non-protein materials, eg alkaloids and cyanogenetic glycosides; aromatic ring formation and the isoprene pathway as a source of rubber, steroids, carotenes and essential oils. Flower pigments and phytoalexins.

A combined practical with unit 41.102C illustrates and amplifies the course and includes a wide range of the latest techniques.

Textbooks
No set texts. A list of references is provided by the school.

School of Botany

Undergraduate Study

43.101
Genetics L2T4
Prerequisites: 17.001 or 17.011 & 17.021.

Various aspects of molecular, organismal and population genetics, including: meiotic and non-meiotic recombination, genome variations, mutagens and mutation rates, cytoplasmic
inheritance, gene function, genetic code, gene structure, col-linearity of polynucleotide and polypeptide, control of gene action, genes and development, population genetics, genetics and improvement of plants and animals.

Textbook
Patt D. I. & Patt G. R. An Introduction to Modern Genetics Addison-Wesley

43.111
Flowering Plants
Prerequisites: 17.001 or 17.011 & 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. Week-end fieldwork is part of the course.

Textbooks
Bell C. R. Plant Variation and Classification Wadsworth
Esau K. The Anatomy of Seed Plants Wiley

43.121
Plant Physiology L2T4
Prerequisites: 17.001 or 17.011 & 17.021 and 2.001 or 1.001.
A student may apply to the School for variation of the pre-requisite.
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.

Textbooks
Galston A. W. & Davies P. J. Control Mechanisms in Plant Development Prentice-Hall
Richardson M. Translocation in Plants Arnold
Sutcliffe J. Plants and Water Arnold
Whittingham C. P. Photosynthesis OUP

43.102
Advanced Genetics L2T4
Prerequisite 43.101.
Students wishing to take this subject should request details from the School of Botany. The subject may be taken in either second or third year of the Science course provided that prerequisites have been completed.

43.112
Plant Taxonomy L2T4
Prerequisites: 43.111, 43.101 pre- or co-requisite.
This subject alternates each year with 43.162. The Plant Kingdom 43.162 commences in 1977.
Considers the assessment, analysis and presentation of data for classifying plants both at the specific and supra-specific level; the emphasis is on vascular plants. Students are required to attend field excursions all of which form an integral part of the course. The subject may be taken in second or third year of the Science course provided that prerequisites have been completed.

Textbooks*
Beadle N. C. W., Evans O. D. & Carolin R. C. Flora of the Sydney Region Reed
Cronquist A. The Evolution and Classification of Flowering Plants Nelson
Heywood V. H. Plant Taxonomy The Institute of Biology's Studies in Botany No. 5 Arnold
Jeffrey C. An Introduction to Plant Taxonomy Churchill
Jeffrey C. Biological Nomenclature Arnold

43.122
Advanced Plant Physiology L2T4
Prerequisites: 43.112, 41.101A, 41.101B & 43.121.
The subject covers the physiology and biochemistry of plant and microbial pathogens, with special reference to developing and germinating seeds and of developing and ripening fruits. Project work is important and some attendance is required outside the hours set down in the timetable. Reading and interpreting original scientific papers is an important part of these projects which relate to current work in the fields covered. The subject may be taken in either second or third year of the Science course provided that prerequisites have been completed.

43.132
Mycology and Plant Pathology L2T4
Prerequisite 43.131. A student may apply to the School for variation of the prerequisite.
A detailed study is carried out on the fungi, including both saprophytic and plant pathogenic species. The topics considered include: hyphal structure and ultrastructure; morphology and taxonomy of members of major taxonomic groups: sporangia development, 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.

Textbooks
Burnett J. H. Fundamentals of Mycology Arnold
Talbot P. H. Principles of Fungal Taxonomy Macmillan

43.142
Environmental Botany L2T4
Prerequisites: 17.001 or 17.011 & 17.021, 1.001. A student may apply to the School for variation of the prerequisite.
The soil and atmospheric environments in which plants live and the interaction of plants with their environment. Emphasis

*Students should consult lecturers in the subjects 43.112 and 43.122 before purchasing textbooks.
Professional Studies

is placed 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
Palaeoecology
Prerequisite: 43.111.
The evolution of the Australian flora from the Tertiary to the present and the relationships between the present flora and those of neighbouring land masses. Includes an introduction to methods of palynology and palaeoclimatology, as well as numerical methods in phytogeography. A field camp is an integral part. May be taken in second or third year of the Science course.

Textbooks
No set texts.

School of Zoology

Undergraduate Study

44.101
Introductory Microbiology S2 L2T3
Prerequisites: 17.011, 17.021.
The general nature, occurrence and importance of microorganisms. A systematic review of the major groups of microorganisms: the eucaryotic protista (micro-algae, protozoa and fungi); procaryotic protista (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 micro-organisms and higher organisms.

Textbook
Brock T. D. Biology of Micro-organisms Prentice-Hall

44.102
General Microbiology S1 L4T8
Prerequisites: 44.101, 41.101 or 41.101A & 41.101B.
Double unit, Level III.
Systems for the isolation, identification and taxonomic description of microorganisms; fine structure, cyto-chemistry, genetics of bacteria and viruses; metabolic requirements of microorganisms; microorganisms and their environment; growth, inhibition and death; energy-yielding and biosynthesizing systems; genotypic and phenotypic control systems.

Textbooks
As for 44.101 if not taking other Microbiology units. Otherwise:
Hawker L. E. & Linton A. H. eds Microbiology: Function, Form and Environment Arnold
Davis B. D., Dulbecco R., Eisen H. N., Ginsberg H. S. & Wood W. B. Microbiology Complete ed Harper & Row

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. The course includes phylogeny and ontogeny of the immune response; antigen and antibody structure; antigen-antibody reaction; immunochemistry; Immunogenetics, clinical immunology; transplantation.

Textbook
Roitt I. Essential Immunology Blackwell Scientific Pub.

44.103
Biometry S2 L2T4
Prerequisites: 17.011, 17.021.
Statistical methods and their application to biological data, including: introduction to probability. The binomial, poisson, negative binomial, normal distributions; student's t, 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 $\chi^2$, the Kruskal-Wallis test, Fisher's exact probability test and rank correlation methods.

45.101
Invertebrate Zoology S2 L2T4
Prerequisites: 17.011, 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.

Textbooks
Meglitsch P. A. Invertebrate Zoology 2nd ed OUP

45.301
Vertebrate Zoology F L2T4
Prerequisites: As for 45.201 above.
A comparative study of the Chordata. Morphology, systematics, evolution, natural history, with reference to selected aspects of
Subject Descriptions and Textbooks

45.112
Marine Ecology S1 L2T4
Prerequisites: 17.011 and 17.021 plus 45.201 or 25.022 or 2.002D.

A study of the metabolic, regulatory and reproductive activities 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.

Textbook
Tait, R. V. Elements of Marine Ecology. An Introductory Course 2nd ed Butterworths

45.121
Evolutionary Theory S1 L2T4
Prerequisites: 17.011, 17.021.

Current evolutionary theory, emphasizing the population level. Ecological genetics, evolutionary aspects of ecological niche theory, speciation, coevolution and general evolutionary genetics. Some background in genetics is desirable.

Textbooks
No set texts. Use is made of the original literature and principal references.

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.

Textbook
Brown J. L. The Evolution of Behaviour Norton

45.132
Comparative and Environmental Physiology L2T4
Prerequisites: 45.301, 45.101, 45.201.

The physiology of the various classes of vertebrate animals with particular 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.

Textbooks
Gordon M. S. Animal Function: Principles and Adaptations 2nd ed Macmillan
or
Schmidt-Nielsen K. Animal Physiology: Adaptation and Environment CUP
and
Wessells N. K. Vertebrate Structure and Functions. Readings from Scientific American Freeman

45.142
Developmental and Reproductive Biology 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.

Textbooks
Nalbandov A. V. Reproductive Physiology of Birds and Mammals 3rd ed Freeman

45.202
Advanced Invertebrate Zoology L2T4
Prerequisite: 45.201.

A comparative study of the environmental and sensory physiology of invertebrates.

Textbook
Schmidt-Nielsen K. Animal Physiology: Adaptation and Environment CUP

45.302
Vertebrate Zoogeography L2T4
Prerequisite: 45.301.

A geographic approach to the current distribution, abundance and types of vertebrate species in the Australian region. Particular emphasis is placed 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.

Textbooks
No set texts. Use is made of the original literature and the principal references.

45.402
Insect Structure and Classification S1 L2T4
Prerequisites: 45.201, 45.101.

A comparative study of the internal anatomy and external morphology of insects. Classification and bionomics of major
Professional Studies

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.

Textbook
CSIRO. The Insects of Australia. MUP

45.412
Insect Physiology
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.

Textbook
Chapman P. F. The Insects, Structure and Function EUP

45.422
Applied Entomology
Prerequisite: 45.412.
Fundamentals of insect control. Pest species and types of damage caused. Control by insecticides, physical and biological means. Insect toxicology. Insecticide resistance. Practical work to illustrate the above and also various aspects of bioassay in entomology. Field excursions as arranged.

Textbook

45.432
Project
Prerequisite: 45.412.
Selected aspects of insect physiology, ecology and toxicology. Treatment of topics in depth rather than breadth. Practical work illustrates the lectures and places emphasis on design and planning of experiments.

School of Sociology

Undergraduate Study

53.101
Sociology IA
1 unit

53.102
Sociology IB
Prerequisite: 53.101.
The course descriptions for 53.101 and 53.102 are given below; the order in which they are presented is notified at the beginning of the year.

1. An introduction to sociology that focuses on the thought of four seminal theorists. The course treats the work of Marx, Weber, Durkheim and Simmel in some detail. Students are expected to examine salient aspects of these writings and present written and oral assignments during the session.

Textbooks
1. Marx K. Economic and Philosophic Manuscripts Foreign Languages Publishing House Moscow
Bottomore T. B. & Rubel M. eds Karl Marx, Selected Writings in Sociology and Social Philosophy Penguin
Giddens A. Selected Writings of Durkheim CUP
Wolff Kurt ed The Sociology of Georg Simmel Free Press

2. Burns T. ed Industrial Man Penguin
Dickson D. Alternative Technology Fontana
Oakley A. The Sociology of Housework Martin Robertson
Beteille A. Social Inequality Penguin
Encel S. Equality and Authority Cheshire
Firestone S. Dialectic of Sex Bantam
Dahrendorf R. Class and Class Conflict in Industrial Society Routledge
Oakley A. Sex, Gender and Society Temple Smith
Mead G. H. Mind, Self and Society Chicago UP
Freud S. Civilization and its Discontents Hogarth Press
Berger P. The Noise of Solemn Assemblies Doubleday
Wild R. Bratslow Cheshire

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. Librarlanship 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 the 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.

Textbooks
Anglo-American Cataloguing Rules ALA
Ford S. Acquisition of Library Materials ALA
Foskett A. C. The Subject Approach to Information 2nd ed Bingley
Horner J. Cataloguing Assoc. of Asst. Librarians

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.

Textbook
Barton M. N. Reference Books 7th ed Enoch Pratt Free Library

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.

Textbook
Pugh D. S., Hickson D. J. & Hinings C. R. Writers on Organizations 2nd ed Penguin

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, popularization. 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

Textbooks
Campbell E. M. & McDougall D. Legal Research: Materials and Methods Law Book
Moys E. M. ed Manual of Law Librarianship; The Use and Organization of Legal Literature Andre Deutsch

55.232
Subject Bibliography: The Social Sciences

55.233
Subject Bibliography: Pure and Applied Sciences

Textbook

55.238
Subject Bibliography: Government Publications

Textbook
Sawer G. Australian Government Today Rev ed MUP

55.362
Mechanized Systems for Libraries


Textbooks
Smith G. L. Library Use of Computers Special Libraries Association
Professional Studies

55.371
**Literature for Young People**
Printed materials for children and young adults in relation to their needs, interests and abilities. Criteria for evaluation and selection for library collections. Use of materials in reading guidance with children and young adults.

55.373
**Public Libraries**
The purpose of the public library in the community examined through a comparative study of public library services with emphasis on special programs of service to adults, young adults and children; surveys and plans for the introduction of library service to specific regions.

55.378
**University and College Libraries**
Trends and developments in tertiary education in relation to the purposes and functions of university and college libraries. The library's response to the university environment and to the library user through its resources and services.

55.381
**Special Libraries**
The nature of special libraries and the environments in which they operate. The evolution of the special library. The relationships of the special library to its parent organization, to its users and to other sources of information. The functions of the special library and their translation into appropriate services. Systems and techniques relevant to special libraries, including mechanized information systems. Staffing, siting, planning special libraries. Measurement of special library effectiveness.

Textbook
Batten W. E. *ed Handbook of Special Librarianship and Information Work* 4th ed Aslib

55.385
**School Libraries I**
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.

Textbooks
Prostano E. T. & Prostano J. S. *The School Library Media Center Libraries Unlimited*

55.386
**School Libraries II**
Subject curriculum studies in relation to the selection of materials and library programs. Materials studies in relation to the range and type of materials and their application to curriculum subjects. The compilation of subject bibliographies. Media production and services in relation to subject curriculum studies. Methods of individual and group reader education and the teaching of library skills.

55.712
**Archives Theory and History**

Textbook
Jenkinson H. *Manual of Archive Administration* 2nd ed Lund Humphries

55.713
**Archives Administration**
1. Relations between archive-creating bodies and archives institutions. Commercial and legal practice, forms and terminology relevant to the understanding of archives. The elements of records management.
2. Archives management: acquisition, arrangement and description, the publication of finding aids, the application of automation, microcopying, conservation of materials. Repository planning.
3. The principles of administration and their application to archives institutions.
4. Service to users of archives, including questions of access and copyright. Publication of archives.

Textbooks
Schellenberg T. R. *Management of Archives* Columbia UP
Schellenberg T. R. *Modern Archives, Principles and Techniques* Chicago UP

55.714
**Information Environment for Archivists**
Information sources which supplement archives: academies, learned societies, institutions, including libraries, galleries and museums. Libraries of various types studied in relation to the needs of archivists; acquisition of materials by purchase, gift, exchange and legal deposit; organization of materials for use. Bibliographical description and national and international documentation standards. Documentary materials in non-book form and their use in research. Dissemination of texts and other types of record by rephotography and in microform.
Master of Librarianship Subjects

55.801G
Library and Information Services
Management A

55.803G
Library and Information Services
Management B
The assessment of information needs of various groups and the design of appropriate services. Library systems analysis. The integration of libraries in information networks. Applications of operations research and computer technology in library management and in the dissemination of information by other agencies. Evaluation of libraries and other information services.

55.805G
Issues in Librarianship
Contemporary issues in librarianship, including the provision of libraries and information by governments and by private enterprise; automation, information science and libraries; cataloguing, classification and bibliographical control; problems of publication growth and library size; libraries in the social environment.

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.

School of Education

Graduate Study

Diploma of Education

58.001
Educational Psychology
A general overview of significant aspects of human behaviour in educational settings. Topics: classroom discipline and behaviour modification; individual differences, cognitive growth and intelligence, socialization through the school, evaluation, the psychology of adolescence, memory, learning theories, motivation, efficient instruction and learning disabilities.

Textbooks
Gage N. L. & Berliner D. C. Educational Psychology: Theory and Practice Rand McNally
Clarizio H. F., Craig R. C. & Mehrens W. A. Contemporary Issues in Educational Psychology 2nd ed Allyn & Bacon
Power P. G. Adolescent Development Macmillan

58.002
Philosophy of Education
Subjects in Session 1 are designed to explore philosophical questions concerning teaching and learning with particular reference to the various subjects taught in schools. Issues are raised concerning the relationships between school subjects, the connection between knowledge and the development of mind, the value of school subjects in relation to other activities which could compose education and the social and ethical context of education. These issues are followed up in much more detail in Options in Session 2.
A focus of subjects in Philosophy of Education in Session 1 is upon logical and epistemological questions which are internal to the various teaching subjects. To this end students are asked to select their Philosophy of Education group from one of the following:
Philosophical problems in Mathematics and Education or
Philosophical problems in Language and Education or
Philosophical problems in Literacy Appreciation and Education or
Philosophical problems in History and Education or
Philosophical problems in Science and Education or
Philosophical problems in Social Science and Education or
Philosophical problems in Curriculum and Education.

58.003
Sociology of Education
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.

58.004
Electives
Electives are offered in Education subjects and in Method and Curriculum studies to meet the differing professional needs and interests of students with varying backgrounds. Students are encouraged to initiate further elective courses. No restriction is placed on the choice patterns of students.

58.005
Education Options
Students have a free choice of options to be drawn from any one of the core studies, or from a combination of them, or
from additional educational studies which may be offered from time to time.


*Philosophy of Education*: Philosophy of Mind and Education: psychoanalysis and behaviourism; Chomsky and Skinner; psychological concepts in education. Ethics and Education: moral education; personal development. Social Philosophy and Education: Marxism; Paulo Freire; authority and freedom; social philosophy and schooling; current social problems and the curriculum. Epistemology and Education: logical and epistemological considerations in curriculum construction. General Philosophy and Education: methodology for criticism and education; philosophical problems in education.


### 58.021 Commerce/Economics Method

This subject 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 bookkeeping is necessary to the study of Commerce Method and tutorials are arranged for those with no previous bookkeeping experience.

*Textbooks*
- Dufty D. G. *Teaching about Society—Problems and Possibilities* Rigby
- Lee N. *Teaching Economics* Economics Association of Great Britain Surrey 1987
- Whitehead D. *Curriculum Development in Economics* Heinemann

### 58.022 English—Single Method

### 58.023 English—Double Method

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.

*Textbooks*
- Ashworth A. & Waton K. *Towards a New English* Reed Education for the English Teachers’ Association of New South Wales Sydney 1972
- Owens G. & Marland M. *The Practice of English Teaching* Blackie London

### 58.024 French Method

### 58.026 German Method

### 58.036 Spanish Method

These subjects have several aspects. Method discusses audio-visual language teaching including some attention to the history and development of these Methods and of linguistics. Practical sessions complement this theory; teaching techniques are considered, material from the audio-visual course utilized and practice teaching problems discussed.

*Textbook*
- Rivers W. *Teaching Foreign Language Skills* Chicago UP

### 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. This is 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.
Subject Descriptions and Textbooks

58.028 Industrial Arts Method
The subject includes the application of principles dealt with in philosophy, psychology and theory of education to the teaching of the Industrial Arts.

Textbooks
Gibson J. W. & Taylor T. W. Experimental Materials Science GTB Publications
Leadbeater B. R. & Keable J. E. Australian Woodworking McGraw-Hill
Wilbur O. W. & Pendred C. P. Industrial Arts In General Education International Textbook Co

58.029 Library Method
The subject 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.

58.032 Science—Double Method
58.033 Science—Single 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. e.g 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, e.g. 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.

Textbooks
Collette A. T. Science Teaching In the Secondary School Allyn & Bacon
Tisher R. P. et al Fundamental Issues in Science Education Wiley Sydney

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.

Textbooks
Flesch R. Why Johnny Can't Read Harper & Row

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.

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 courses 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 course is the opportunity to prepare and test resource material.

Textbooks
Social Science
Dufty D. G. et al Teaching About Society Rigby
Asian Social Studies and Ancient History
In each of these courses a variety of paperback reading is referred to.

58.036
Spanish Method
See 58.024.

58.037
Method and Curriculum Studies
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
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
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.

Education Subjects in Science Education, Mathematics Education and Industrial Arts

58.071
Education ID (Industrial Arts Curriculum and Instruction)
Prerequisite: 58.512. Co-requisite: 58.513.

The application of principles dealt with in Philosophy and Theory of Education, and in Educational Psychology, to the particular case of teaching in the Industrial Arts subject area. For example, the aims of industrial arts teaching are analysed and the provision of effective learning experiences are discussed. Practical work, demonstrations by the teacher, audio-visual aids, programmed instruction and the planning and presentation of lessons to incorporate such learning experiences effectively. Classroom management and workshop organisation are also dealt with, as is the teaching of various skills.

Textbooks
Schlenker B. R. Introduction to Materials Science Wiley
Schlenker B. R. Introduction to Engineering Mechanics Wiley
Wilber O. W. & Pendred C. P. Industrial Arts in General Education 3rd ed Int Text Book Co

58.072
Education IID (Industrial Arts Curriculum and Instruction)
Prerequisite: 58.071. Co-requisite 58.514.

Curriculum development in Industrial Arts, further discussion of instructional procedures, evaluation of student achievement and the planning and management of facilities. The aims and objectives of Industrial Arts teaching are considered including reference to the influence of historical, social and technological factors upon them. The selection and sequencing of content is dealt with as a basis for programming. Principles of evaluation introduced in Educational Psychology are applied to the case of Industrial Arts and special techniques are considered. Instructional procedures discussed include questioning, explanation, exposition, group processes and the use of practical work. The planning and management of facilities include consideration of the Planning Unit and the Resource Centre in the Integrated Industrial Arts Complex.
Textbooks
Gibson J. W. & Taylor T. W. Experimental Materials Science
   GTB Pub
Gibson J. W. & Taylor T. W. Experimental Materials Science
   —Teachers’ Manual GTB Pub 1969
Leadbeatter B. R. & Keable J. E. Australian Woodworking
   Metric Edition McGraw-Hill
Wilber O. W. & Pendred C. P. Industrial Arts in General Education
   Int. Text Book Co

58.512
Introduction to Education
The subject serves as a basis for study in greater depth of educational psychology, philosophy and theory of education 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 IA
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
The theory and practice of research methods in education in both the parametric and non-parametric fields including: measures of central tendency and dispersion, graphical representation of data, normal curve theory tests of difference between statistics, correlation, tests and examinations. Analysis of variance, regression and the nature of experiments.

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 1B
Prerequisites: 1.011 or 1.001 and 2.001, 17.011, 17.021, 25.011
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.

Textbooks
Collette A. T. Science Teaching in the Secondary School Allyn
   & Bacon
Tisher R. P. et al Fundamental Issues in Science Education
   Wiley

58.514 and 58.584
Education IIA
Prerequisite: 58.513. Co-requisite: 58.524 or 58.534 or 58.071.

Students enrolled in the BScEd 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 (407 and 408) 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.

Textbooks
Russell I. L. Motivation Brown
Sperry L. ed. Learning Performance and Individual Differences
Scott, Foresman

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.
Professional Studies

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 trialing 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 implications 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 Aims 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-schooled movement.

Preliminary Reading
Dewey J. The Child and the Curriculum, and the School and Society Chicago UP
Berg L. Risinghill. Death of a Comprehensive School Penguin
Lawson M. D. & Petersen R. C. Progressive Education—An Introduction A & R
Reimer E. School is Dead Penguin

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.
Subject Descriptions and Textbooks

58.524
Education IIB
*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.

Textbooks
Collette A. T. *Science Teaching In the Secondary School* Allyn & Bacon
Tisher R. P. et al *Fundamental Issues In Science Education* Wiley

Graduate Study

Master of Education Subjects

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, Berdyaev, Sartre, Homer Lane, A. S. Neill, 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.

58.533
Education IC
*Prerequisite: 10.001 or 10.011, 58.512. Co-requisite: 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 aids 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
*Prerequisites: 58.513, 58.533.*

Mathematics Curriculum and Instruction
Examination of the aims of teaching 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.

58.593
School Experience I
*Prerequisite: 58.512. Co-requisite: 58.523 or 58.533 or 58.071.*

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
*Prerequisites: 58.593 and 58.072 or 58.523 or 58.533. Co-requisites: 58.524, 58.534 or 58.072.*

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.
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, Parkes, 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 to aspects of a mathematics curriculum; an examination of new mathematics curricula in Australia and overseas in terms of the above theories and principles.

58.214G
Advanced Educational Research
The course provides a basis in some depth for applied educational research. Particular attention is given to longitudinal survey research, experimental and quasi-experimental designs in research, and the design and conduct of research projects.

58.215G
Philosophy of Education Subjects
1. History of Western Education. 2. History of Australian Education. 3. Academic Sciences: modern and historical. An introduction to the methods and principles of educational research. A study is made of the theoretical problems associated with research projects suitable for report and thesis presentation, and practical experience is also provided. The subject content includes evaluation of related research articles, the design of interviews, introductory research methods and research and experimental design.

58.216G
Educational Research
Prerequisite: Student selecting this subject may not also select 58.217G.

An introduction is provided to the methods and principles of research in the Social Sciences. A study is made of the theoretical problems associated with research projects suitable for report or thesis presentation, and practical experience is also provided. The subject content includes evaluation of related research articles, the design of interviews, introductory parametric and non-parametric research methods, and research experimental design.

58.217G
Educational Research T
Prerequisite: Students selecting this subject may not also select 58.216G.

The subject 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. A study is made of the theoretical problems associated with research projects suitable for report and thesis presentation, and practical experience is also provided. The subject content includes evaluation of related research articles, the design of interviews, introductory research methods and research and experimental design.

58.218G
Philosophy and the Curriculum
An examination of epistemological, logical, psychological and sociological considerations in curriculum construction. Topics selected from: 1. Traditional Epistemology: knowledge, belief and evidence; knowledge, truth and certainty; knowing how and knowing that. 2. Formal Logic and the Logic of a Form of
Knowledge: necessary truth; rational judgment; facts; concepts.

3. Psychological Considerations in Curriculum Development: Interests; creativity; intelligence; needs; mental abilities; concepts of mind; behavioral objectives; affective objectives; stages of psychological development.

4. Sociology of Knowledge and the Curriculum: historical considerations in the evolution of knowledge; knowledge and control; relativist and absolutist conceptions of knowledge.

5. Current curriculum issues: integration of the curriculum; specialization vs. liberal education; humanities vs. sciences; the hidden curriculum; means and ends in curriculum development.

58.254G
The Philosophy of Mind and Educational Theory

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: behaviorism, 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.

58.255G
Marxism and the Study of Education

1. Marxism examined as a social theory: its origins, history of development and central tenets, etc. Stress on ideology, the State, epistemology and Marxism considered in the context of recent philosophy of science.

2. Marxism as it bears on the practice and study of education: the function of schools in society; the role of higher education; assumptions about the nature of man and society in educational theory; epistemology and schooling practice; the 'deschooling' debate.

Sociology of Education Subjects

58.301G
Sociology of Education A

Introduction to Sociology, with particular reference to the application of the sociological perspective to teaching and learning. Topics include: socialization, stratification in society, equality and inequality of educational opportunity, the role of women in education, school systems and minority groups such as migrants and aboriginals, and reference group theory applied to parent, teacher and student groups.

58.302G
Sociology of Education B

The principles and methodology of sociology. Theoretical perspectives of influential sociological writers are studied, with particular attention given to their impact on the study of educational institutions. Topics include a study of interaction and group processes in the classroom, sociology of the school and curriculum, teacher role, sociology in teacher training, social organizations in the school setting and bureaucratization.

Science Education Subjects

58.330G
General Issues in Science Education

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

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


58.333G
Primary Science Education

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

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

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.

Educational Psychology Subjects

58.360G
Introduction to Educational Psychology

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

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

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 assumption and methodology associated with the concept of development.

58.363G
Cognitive Development and Classroom Learning

Includes considerations of the theories of Bruner, Gagné, and Piaget. Implications of these theories for Instructional sequence and design.

58.364G
Instructional Technology

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

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

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

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

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

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
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
The basic principles of conditioning and their application to the manipulation of learning behaviours in educational environments.

58.374G
Social Learning and Education
The principles of social learning and the implications of the major research findings as they affect educational procedures.

58.375G
Psychophysiology in the Classroom
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.

58.376G
The Education of Exceptional Children
Problems associated with learning difficulties, mental retardation, handicaps of both physical and psychological nature and special problems associated with the education of gifted children.

58.377G
Personality Development and Counselling Techniques in Education
Clinical methods and counselling procedures suitable to an 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
Vocational guidance techniques and problems, appropriate concepts of testing, and the place of psychology in the school curriculum.

58.601G
Theories of Counselling
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 educational authority, and 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.

Textbooks
Steffle B. & Grant W. H. Theories of Counselling McGraw-Hill NY
Tyler L. The Work of the Counsellor 3rd ed Appleton-Century-Crofts

58.602G
Psychological Analysis: Assessment and Diagnosis
Lectures, demonstrations, discussion and practice covering the rationale 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.

Textbooks
Cronbach L. J. Essentials of Psychological Testing Harper & Row
Goldman L. Using Tests in Counselling Appleton-Century-Crofts
Kleinhunz B. Personality Measurement Dorsey
Palmer J. O. The Psychological Assessment of Children Wiley NY
Wardrop J. L. Standardized Testing In the Schools: Uses and Roles Brooks/Cole Pub Co
58.603G
Counselling Interventions

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.

Overlap 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.

Textbooks
Blackham G. J. & Silverman A. Modification of Child and Adolescent Behaviour 2nd ed Wadworth
Rickard H. C. ed Behavioural Intervention in Human Problems Pergamon NY

58.604G
Personality Theories

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.

Textbooks
Bandura A. & Walters R. H. Social Learning and Personality Development Holt, Rinehart & Winston
Hall C. S. & Lindzey G. Theories of Personality 2nd ed Wiley NY
Lindzey G. & Hall C. S. Theories of Personality: Primary Sources and Research Wiley NY

58.605G
Human Development

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.

Textbooks
Bronfenbrenner U. ed Influences on Human Development Dryden
Erikson E. H. Identity: Youth and Crisis Norton
Power P. G. ed Adolescent Development: Selected Australian Readings MacMillan Melb

58.606G
Contemporary Issues in Counselling and Counselling Psychology

Includes consideration of those issues which currently preoccupy the deliberations of leaders in the field of counselling. Deals also specifically with the operation of guidance organizations in the Department of Education and similar authorities. Systematic study will be carried out of people record systems, case files, counsellor organization, inspection, transfer and promotion, the Adjustment Section. 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.

Textbooks
Burck H. D., Gottingham H. F. & Roordon R. D. Counselling and Accountability Pergamon
Christiansen H. D. Ethics in Counselling Arizona UP
Jenkins N. R. The role and functions of school counsellors. Australian Psychologist 1976 No. 11 pp 53-58

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.

Textbooks
Chassan J. B. Research Design in Clinical Psychology and Psychiatry Appleton-Century-Crofts
Davidson P. O. & Costello C. G. N = 1: Experimental Studies of Individual Cases Van Nostrand
Experimental Designs Committee ACES Research Guidelines for High School Counsellors CEEB 1967

58.608G
Professional Practice

Preliminary theoretical considerations leading to the application of knowledge in a variety of counselling areas including the following:

with other professionals in the school. Definition of professional roles. 2. Case work with adolescents. 3. Individual academic and learning difficulties. Diagnosis and treatment. Study techniques. Poor relations. Educational resources and the individual child. 4. School and Class Placement. Course, subject and level choices. 5. Vocational choice in relation to course content and performance. Preparation for post school study and employment. 6. Guidance teaching, including health education, sex education, drug education.


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.

Textbooks
Williams K. The School Counsellor Methuen

Subject Descriptions and Textbooks

School of History and Philosophy of Science

Undergraduate Study

62.001 History and Philosophy of Science I

The Origins of Modern Science

Session 1
An Introductory course dealing with the main developments in the history of science between 1300-1800. The main emphasis will be on the seventeenth century Scientific Revolution. The course will examine, among other things, the work of Copernicus, Kepler, Gilbert, Harvey, Galileo, Torricelli, Huygens and Newton. The decline of scholastic philosophy and the rise of a new mentality reflected in the writings of Bacon, Descartes and Galileo will be discussed in some detail. Cartesian and Newtonian physics and the establishment of a mechanistic world view will also be examined.

Textbooks
Butterfield H. The Origins of Modern Science 1300-1800 Bell

The Social History of Science

Session 1
The study of the scientific enterprise in its social and cultural context. The course will deal with topics such as: the emergence of the scientific movement in Britain and Western Europe, the relations between the State and the community of science, the nature and functions of scientific societies and academies; the influence of technology on science and of science on technology; science and the State in the twentieth century with special reference to specific problems in the USA, Britain, Soviet Union, Germany, and the developing nations.

Textbook
Rose H. & Rose S. Science and Society Penguin

62.002 History and Philosophy of Science II

The Principles of the Philosophy of Science

Session 1
A general introduction to the philosophy of science. Following a preliminary examination of the nature of some of the common forms of argument employed in natural science and mathematics, several of the more central problems of the philosophy of science will be discussed, 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 will be used to illustrate the philosophical issues.
Selected Topics in the Histories of the Sciences

Session 2

Students will 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 century.

Textbook
Coleman W. Biology in the Nineteenth Century Wiley

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.

Textbook
Mellor D. P. The Evolution of the Atomic Theory Elsevier

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; Kelvin and the age of the earth; the history of the hypothesis of continental drift from Wegener to the present; paradigmatic geology in the first half of the twentieth century; some new directions—geophysics, geochemistry, oceanography, tectonics, paleoecology, Quaternary geology and the evolution of the hominids, lunar geology, environmental geology.

Preliminary Reading
Fenton C. R. & Fenton M. A. Giants of Geology Dolphin

Textbooks
Geikie A. The Founders of Geology Dover
Gillispie C. C. Genesis and Geology Harper

4. The History of Physics
A critical study of the origins and development of modern theories of space and time, and matter and radiation. The course begins with the ‘two small dark clouds’ on the horizon of classical physics, the null result of the Michelson-Morley experiment and the ultra-violet catastrophe highlighted in the Rayleigh-Jeans law, and goes on to consider the empirical and theoretical background to the major revolution in 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.

Selections from primary sources are issued by the School.

Textbooks
Andrade e Silva J. & Lochak G. Quanta World University Library
Einstein A. Relativity, The Special and General Theory University Paperbacks
Einstein A. & Infeld L. The Evolution of Physics CUP

62.042
Science Education and the Dynamics of Scientific Development S1 or S2 L3T1
Prerequisite: 58.512 or special permission of the School of History and Philosophy of Science.

An examination of 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 functions 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.

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. The subject calls for extensive reading, associated with regular classroom exercises.

Textbooks
Atkins R. & Graycar A. Governing Australia Wiley
Barrie W. D. Population and Australia: National Population Inquiry Vols I & II AGPS Canberra
Downing R. I. ed The Australian Economy Weidenfeld & Nicolson
Kewley T. H. Social Security In Australia S.U.P.
Rennison G. A. We Live Among Strangers M.U.P.
Sawer G. Australian Government Today M.U.P.
Wrong D. H. Population and Society Random House Paperback
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, preschool, 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.

Textbooks
Hunt S. & Hiltun J. Individual Development and Social Experience Allen & Unwin
Rayner E. Human Development: An Introduction to the Psychodynamics of Growth, Maturity and Ageing Allen & Unwin

63.211 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.

Textbooks
To be advised

63.231 Research Methods I

The focus of the course is on the consumption of social research—philosophical bases of science and social science—what is science, what is social science, what are the generally accepted attitudes and why. The relevance of these philosophical questions to social workers. The important historical and normative linkages underpinning current thinking about social work research.

The nature of evidence examined in the contexts of the major types of social research and research designs. A discussion of the techniques of data analysis and measurement appropriate to particular designs, so that research studies can be critically evaluated for their usefulness and generalizability.

Textbooks
StatLab McGraw-Hill

63.263 Social Work Practice IA

Various forms of interpersonal communication with particular emphasis on its behavioural effects; the principles and techniques of interviewing. Emphasis on experiential learning, through role-playing and skill-practice exercises, video-tapes and tape-recordings, students learn preliminary skills in interpersonal helping.

A general systems model for social work practice is presented; within this framework students begin to develop the analytical, discriminative, and interactional skills necessary for its effective use over a range of intervention situations.

Textbooks
Compton B. & Galaway B. Social Work Processes Dorsey
Pincus A. & Minahan A. Social Work Practice: Model and Method Peacock

63.242 Social Philosophy I


Textbooks
To be designated

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.

Textbook
Kewley T. H. Australia's Welfare State Macmillan

63.272 Social Work Practice IB

Under the supervision of a field instructor of the School, usually in a fairly structured social work agency, a student begins to learn to apply the principles of professional practice. Emphasis is on work with a range of clients and of social problems, rather than on depth of experience. Aim is to begin to acquire, in an actual practice setting, skills and responsibility in interpersonal relations.

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
Professional Studies

Textbooks
To be advised.

63.342
Social Philosophy II


Textbooks
To be advised.

63.353
Social Welfare II

Organizational Analysis of Social Welfare Systems:
The relevance of organization theory for understanding social welfare systems. Five concepts of organizational level: international, national, community, agency, and professional. Dimensions of the system: goals, the objectives, clients and potential clients, the use and availability of resources (personnel, fiscal and technological), auspice or sponsorship, location, external and internal influences, stability and change, the politics of the system. Policy issues inherent in the range of alternatives within and between dimensions.

Social Welfare Sub-Systems:
A comparative study of the main social welfare sub-systems in an urban industrial society, with particular reference to Australia. Categories of sub-system—defined by a common social goal—income security, health, housing, education, civil and political rights. Each sub-system is studied in terms of its major organizational dimensions, as outlined above, and an attempt is made to evaluate the efficiency and effectiveness of each sub-system.

Textbooks
Kahn A. J. Social Policy and Social Services Random House
Kaim-Caudle P. R. Comparative Social Policy and Social Security CUP
Kewley T. H. Social Security in Australia 2nd ed SUP

63.363
Social Work Practice IIA

Further learning in social work practice, including drawing on the contributions of social casework, social group work, community work and social welfare administration.

Textbooks
Foren R. & Bailey R. Authority in Social Casework Pergamon
Haliwell L. M. People Working Together Qld UP
Hunt J. W. The Restless Organisation Wiley
Johnson D. & Johnson F. Joining Together: Group Theory and Group Skills Prentice-Hall
Katz D. & Kahn R. L. The Social Psychology of Organisations Wiley
Leaper R. A. B. Community Work Nat. Counc. of Social Service
Parad H. J. Crisis Intervention Family Service Assoc. of America
Periman R. & Gurin A. Community Organisations and Social Planning Wiley
Reid W. J. & Epstein L. Task-Centred Casework Columbia UP
Schatz H. A. Social Work Administration Council on Social Work Ed.

63.371
Social Work Practice IIB

Usually as a member of a student unit located in a social work agency and supervised by a field instructor of the School, student has learning experiences which help him to acquire skills mainly in the casework method but with some introduction to group work and community organization. Stress is placed on gaining self-awareness, understanding of conscious use of self in interpersonal relationships, and skills in problem definition and interpersonal helping. In the course of this placement the student gains understanding and responsibility in job management.

The duration of this second field work placement is 45 days.

63.431
Research Methods II

The social worker as experimenter—the methodology of intensive and extensive research with particular emphasis on the utility of evaluative research. The process from problem formulation to publication of findings examined in a workshop setting with the aim of operationalizing projects which go beyond a simulation exercise.

Textbooks
StatLab McGraw-Hill

63.453
Social Welfare III

Social Welfare Sub-Systems
A comparative study of the main social welfare sub-systems in an urban industrial society, with particular reference to Australia. Categories of sub-system: Defined by population category—age groups, physical disability, mental disability, sex, ethnicity, war service, religion, socio-legal deviance, geographic location, occupation, economic status.

Each sub-system is studied in terms of its major organizational dimensions, its efficiency and effectiveness.
Subject Descriptions and Textbooks

Social Welfare Planning

Different bases of planning and co-ordination: 1. The relationship between different levels of social organization; functional divisions on the one level of social organization and other linkage questions. 2. Definition of a social problem as a basis for organization. Students undertake a project on a selected social problem, studying its definition, incidence, theories of causation, and policies and provision to cope with it. 3. The role of the social worker and the social work profession in social welfare planning. The objective in this subject is to develop sound professional judgment in relation to social welfare problems, policies and provision, not to teach social policy practice roles as such.

Textbook

Schorr A. L. ed Children and Decent People Allen & Unwin

63.463
Social Work Practice IIIA

Through a variety of educational means, students concentrate upon gaining professional competence in the following social work methods—social casework, social group work, community work, and social welfare administration. A student chooses one of these as a major elective through the year, and one as a minor elective in Session 1.

Textbooks

Social Welfare Administration Elective:
To be designated

Community Work Elective:
To be designated

Casework Elective:
Briar S. & Miller M. Problems and Issues in Social Casework Columbia UP
Roberts R. W. & Nee R. H. Theories of Social Casework Chicago UP
Satir V. Conjoint Family Therapy Science & Behaviour Books
Strain N. S. ed Social Casework: Theories In Action Scarecrow Press Metuchen
Turner F. Social Work Treatment Free Press

Group Work Elective:
Douglas T. Groupwork Practice Tavistock
Johnson D. & Johnson F. Joining Together: Group Theory and Group Skills Prentice-Hall

63.472
Social Work Practice IIIB

1. This placement is taken in one of a wide variety of agencies, some beyond the metropolitan area. These agencies represent a complete range of social work methods so that students may gain practice skills in one or more of the methods as presented in the preceding practice subject, Social Work Practice IIIA. This placement also expects of students an increased level of autonomy in practice within the authority of their agency service. The duration of this placement is 40 days.

2. Usually as a member of a student unit located in a social work agency and supervised by a field instructor of the School, the student has further learning experiences in the social work method on which he has elected to concentrate in Social Work Practice IIIA.

The duration of this fourth and final placement is 45 days.

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. Contemporary issues facing the social work profession—its distribution within social welfare services by professional methods, and geographically; its sex composition; problems or professional organization; international responsibilities; relationships with other welfare personnel; the profession’s priorities.

Textbooks

To be advised

Graduate Study

63.801G
Advanced Social Work Practice I (Interpersonal Helping)

Existing and emerging Social Casework and Social Group Work theory. Various casework and group work models critically evaluated; emphasis on their local applicability.

63.816G
Advanced Social Work Practice I (Community Work)

Recent developments in advanced social work practice at the community level.

63.818G
Advanced Social Work Practice I (Administration)

Theory related to organizational processes; communication, decision-making, leadership, efficiency and effectiveness. Organizational goals; bureaucratic organizations; relationship of statutory welfare organizations with the political aims of Government. Role of Boards in voluntary social welfare organizations; relationship of administrator with Board. Service delivery and evaluation.
63.802G
Advanced Social Work Practice II (Interpersonal Helping)

Following 63.801G, examination of a range of appropriate strategies of intervention. Method application within client, worker and agency systems. Current controversial views about interpersonal helping with reference to problems of selection and integration.

63.817G
Advanced Social Work Practice II (Community Work)

Develops 63.816G, dealing with a further analysis of community work method and practitioner skills. Auspice for community work practice, its implication for practice methods; relevance to organizational goals and policy.

63.819G
Advanced Social Work Practice II (Administration)

Develops 63.818G and deals with the theory and practice skills related to the management task: planning, directing, organizing, staffing, controlling. Budgeting and finance in social welfare organizations. Methods of organizational analysis. Organizational change-process and strategies. Relationship of organizations with the environment: public, consumers, the welfare sector co-ordinating bodies and representation.

63.805G
Issues for the Social Work Profession

Contemporary issues facing the social work profession—its distribution within social welfare services, by professional methods, and geographically; its sex composition; problems of professional organization; international responsibilities; relationships with client and other population groups; relationships with other professions; relationships with other welfare personnel; the profession's priorities.

63.806G
Social and Behavioural Science

Recent and current developments in the social and behavioural sciences; psychodynamic theory, phenomenology, behaviourism, general systems theory, communication theory, small group theory, organizational theory, with relevance to social work practice.

63.807G
Social Policy Analysis

A comparative examination of the development of social policy and social administration as a subject area in Britain, Australia, the United States, and other countries. Boundary problems, characteristic concerns, social policy and economic policy, social policy and the social sciences, the movement towards more systematic analysis.

63.808G
Professional Interpersonal Competence

An examination of the various roles of the profession from the perspective of the interpersonal competence required. Various theories with possible application for increasing professional competence in personal interaction.

63.809G
Project

A study project undertaken by each candidate. The project is an original but limited investigation into some area of social welfare. Each candidate will have a project supervisor.

63.811G
Practice Theory and Social Welfare Administration

Implications for the structuring of social welfare services, of contemporary developments in methods of social work practice. Professional development and staff development; relative responsibilities. Professional supervision; structures and processes.

63.812G
Project Seminar

Candidates are expected to present formally the progress of their projects. This provides for discussion of projects between candidates and an opportunity to deal collectively with problems encountered.

63.814G
Social Planning

An analysis of social planning processes—task definition, policy formulation, programming, and evaluation and feedback. Australian and overseas examples. The location and scope of planning structures. A critical review of the stage of development of social planning theory.

63.815G
Social Work Research Methods

Uses and abuses in research in social work; types of research in social work; steps in the research process; defining program and research objectives; involving the sponsor in the research process; research design; defining and operationalizing the independent and dependent variables; problems of reliability and validity; types of data collection; data analysis; preparing the research report; value questions in social research.
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

73.011A
Principles of Physiology
L2T4
Prerequisites: 17.011, 17.021, 10.001, or 10.011 or 10.021, 2.001.

Generally taken in the second year of the science course by a number of groups of students, including physiotherapy and optometry students as well as those intending to major in physiology. Introduction to fundamental physiological principles, dealing first, with basic cellular function in terms of chemical and physical principles, and second, with the operation of the various specialized systems in the body, for example, the cardiovascular system, whose function it is to transport materials to and from the tissues of the body; the respiratory system which must maintain the exchange of oxygen and carbon dioxide between the atmosphere and the blood; the 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, eg metabolism and reproductive activity; the nervous system which by means of very rapidly propagated electrical impulses is responsible for all our movements, sensations, memories, emotions and consciousness itself.

Textbook

73.012
Physiology II
L4T8

A major subject offered in third year, providing a more advanced course of study concentrating on such facets of

the subject as circulation, respiration, the biophysics of cell membranes, neurophysiology and endocrinology.

Textbook
Mountcastle V. B. Medical Physiology 13th ed Mosby

In both subjects 73.011A and 73.012, students spend considerable time performing laboratory experiments which illustrate various physiological principles and introduce them to the techniques used in physiological investigation.
The University of New South Wales
Kensington Campus 1977

Buildings
Applied Science  F10
Architecture  H14
Banks  F22
Basser College  C18
Biological Sciences  D26
Biomedical Lecture Theatres  E27
Central Lecture Block  E19
Central Store  B13
Chancellery  C22
Civil Engineering  H20
Classroom Block  H3
Dalton (Chemistry)  F12
Electrical Engineering  G17
Electrical Engineering Theatre  F17
Goldstein College  D16
Golf House  A27
Gymnasium  85
House at Pooh Corner  N8
International House  C6
John Goodsell (Commerce)  F20
Keith Burrows Lecture Theatre  H14
Kensington Colleges  C17
Main Building  K15
Maintenance Workshop  B13
Mechanical and Industrial Engineering  J17
Medicine (Administration)  B27
Menzies Library  E21
Metallurgy  E8
Morven Brown (Arts)  C20
New College (Anglican)  L6
Newton  J12
Old Main Theatre  J14
Parade Station  E3
Parking Station  H25
Philip Baxter College  D14
Robert Heftron (Chemistry)  E12
Sam Cracknell Pavilion  H8
Sciences  F23
Science Lecture Theatre Block  D23
Science Theatre  F13
Shalom College (Jewish)  N9
Sir John Ciancy Auditorium  C24
Sir Robert Webster (Textile Technology)  G14
Squash Courts  B7
Unisearch House  L5
University Regiment  J2
University Union (Roundhouse) — Stage I  E6
University Union (Blockhouse) — Stage II  G6
University Union (Squarehouse) — Stage III  E4
Wallace Wurth School of Medicine  C27
Warrane College (Roman Catholic)  M7
Wool and Pastoral Sciences  B8

Centre for Medical Education
Research and Development  F24
Chemical Engineering  F10
Chemical Technology  F10
Chemistry  E12
Child Minding Centre  N8
Civil Engineering  H20
Closed Circuit Television Centre  F19
Commerce (Faculty Office)  F20
Community Medicine  E25
Computer Services Unit  F21
Drama  D9
Economics  F20
Education  G1
Electrical Engineering  G17
Engineering (Faculty Office)  K17
English  C19
Examinations and Student Records  B22
Feas Office  B23
Food Technology  F10
French  C20
General Studies  C20
Geography  K17
German  C20
Health Administration  C22
History  C20
History and Philosophy of Science  C19
Industrial Arts  B1
Industrial Engineering  J17
Institute of Administration  G2
Institute of Languages  G14
Institute of Rural Technology  B8
Law (Faculty Office)  F21
Law Library  F21
Librarianship  B10
Library  E21
Marketing  F19
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  F18
Optometry  H12
Pathology  C27
Patrol and Cleaning Services  F20
Philosophy  C20
Physics  K13
Physical Education and Recreation Centre (PERC), see Gymnasium and Squash Courts
Physiology and Pharmacology  C27
Political Science  C19
Postgraduate Committee in Medical Education  B27
Postgraduate Extension Studies (Closed Circuit Television)  F19
Postgraduate Extension Studies (Radio Station and Administration)  F23
Psychology  F23
Public Affairs Unit  C23
Regional Teacher Training Centre  F24
Russian  D20
Science (Faculty Office)  K14
Social Work  F1
Sociology  C20
Spanish and Latin American Studies  D19
Student Amenities and Recreation  E15
Student Counselling and Research  E16
Student Employment  C22
Student Health  E15
Students' Union  E4
Surveying  H20
Teachers' College Liaison Office  F16
Tertiary Education Research Centre  E16
Textile Technology  G14
Town Planning  K16
University Union  G8
Wool and Pastoral Sciences  B8
Zoology  D26
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 (plus postage and packing, 90 cents). The Handbooks vary in cost. Applied Science, Arts, Commerce and Sciences are $1.50; Architecture, Engineering, Law, Medicine, Professional Studies and AGSM are $1.00. Postage is 40c in each case. The exception is General Studies, which is free.