SOME PEOPLE WHO CAN HELP YOU

Note: All phone numbers below are University extension numbers. If you are dialling from outside the University dial 663 0351 and ask for the extension.

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

continued on inside back cover
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UNIVERSITY OF NEW SOUTH WALES— 378.94405
Faculty of Architecture  NEW

University of New South Wales—Faculty of Architecture—
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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.

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Calendar of Dates for 1975

Session 1: March 3 to May 11
May Recess: May 12 to May 18
May 19 to June 15
Midyear Recess: June 16 to July 20
Session 2: July 21 to August 24
August Recess: August 25 to August 31
September 1 to November 2
Study Recess: November 3 to November 9

JANUARY
Wednesday 1 New Year's Day—Public Holiday
Friday 10 Last day for application for review of results of annual examinations
Last day for application for permission to re-enrol by students who infringed re-enrolment rules at annual examinations
Monday 13 Timetables for deferred examinations available
Friday 17 Last day for acceptance of applications by Admissions Office for transfer to another course within the University
Monday 27 Australia Day—Public Holiday
Tuesday 28 Deferred examinations begin

FEBRUARY
Saturday 8 Deferred examinations end
Friday 14 Last day for appeal against exclusion by students who infringed re-enrolment rules at annual examinations
Monday 17 Enrolment period begins for new students and students repeating first year
Friday 21 Deferred examination results available
Monday 24 Enrolment period begins for second and later year students
Tuesday 25 Last day for application for review of deferred examination results
Friday 28 Last day for application for permission to re-enrol by students who infringed re-enrolment rules at deferred examinations

MARCH
Monday 3 Session 1 commences
Friday 14 Last day for acceptance of enrolments by new students (late fee payable)
Thursday 20 Last day for appeal against exclusion by students who infringed re-enrolment rules at deferred examinations
Thursday 27 Last day for changes in course programmes
Friday 28 to Easter
Monday 31 Last day for acceptance of enrolments by students re-enrolling in second and later years (late fee payable)
**APRIL**

- **Thursday 3**
  - Last day for students other than those attending a university for the first time to discontinue without failure subjects which extend over Session 1 only

- **Thursday 24**
  - Last day for students attending a university for the first time to discontinue without failure subjects which extend over Session 1 only

- **Friday 25**
  - Anzac Day—Public Holiday

**MAY**

- **Tuesday 6**
  - Publication of provisional timetable for June/July examinations

- **Monday 12**
  - May Recess begins

- **Tuesday 13**
  - Last day for acceptance of corrected enrolment details forms

- **Friday 16**
  - Last day for students other than those attending a university for the first time to discontinue without failure subjects which extend over the whole academic year

- **Sunday 18**
  - May Recess ends

- **Monday 19**
  - Last day for students to advise of examination timetable clashes

**JUNE**

- **Tuesday 3**
  - Publication of timetable for June/July examinations

- **Sunday 15**
  - Session 1 ends

- **Monday 16**
  - Queen's Birthday—Public Holiday

- **Tuesday 17**
  - Midyear Recess begins

**JULY**

- **Tuesday 1**
  - Midyear examinations end

- **Sunday 20**
  - Midyear Recess ends

- **Monday 21**
  - Session 2 begins

- **Thursday 31**
  - Foundation Day

**AUGUST**

- **Friday 1**
  - Last day for students attending a university for the first time to discontinue without failure subjects which extend over the whole academic year

- **Thursday 21**
  - Last day for students other than those attending a university for the first time to discontinue without failure subjects which extend over Session 2 only

- **Monday 25**
  - August Recess begins

- **Sunday 31**
  - Holiday for non-academic staff

**SEPTEMBER**

- **Friday 12**
  - Last day for students attending a university for the first time to discontinue without failure subjects which extend over Session 2 only

- **Monday 15**
  - Last day for return of corrected enrolment details forms

- **Tuesday 23**
  - Last day for applications from students graduating in 1976 for admission to University degrees and diplomas

- **Publication of provisional timetable for annual examinations**
OCTOBER
Wednesday 1  Last day to apply to MUAC for transfer to another university in Sydney metropolitan area and Wollongong
Friday 3  Last day for students to advise of examination timetable clashes
Monday 6  Eight Hour Day—Public Holiday
Tuesday 21  Publication of timetable for annual examinations

NOVEMBER
Monday 3  Study Recess begins
Sunday 9  Session 2 ends
Monday 10  Annual examinations begin

DECEMBER
Tuesday 2  Annual examinations end
Thursday 25  Christmas Day—Public Holiday
Friday 26  Boxing Day—Public Holiday

1976

Session 1:  March 1 to May 9
May Recess: May 10 to May 16
May 17 to June 13
Midyear Recess: June 14 to July 18
Session 2:  July 19 to August 22
August Recess: August 23 to August 29
August 30 to October 31
Study Recess: November 1 to November 7

JANUARY
Friday 9  Last date for application for review of results of annual examinations
Monday 12  Publication of timetable for deferred examinations
Friday 16  Last day for acceptance of applications by Admissions Office for transfer to another course within the University
Monday 26  Australia Day—Public Holiday
Tuesday 27  Deferred examinations begin

FEBRUARY
Saturday 7  Deferred examinations end
Monday 16  Enrolment period begins for new students and students repeating first year
Friday 20  Results of deferred examinations available
Monday 23  Enrolment period begins for second and later year students

The Academic Year

The academic year is divided into two sessions, each containing 14 weeks for teaching. There is a recess of five weeks between the two sessions as well as short recesses of one week within each of the sessions.

Session 1 commences on the first Monday of March.
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 1974 the University had 17,355 students and 3,958 staff who worked in more than eighty buildings. If staff and students at Broken Hill (W. S. and L. B. Robinson University College), Wollongong (an autonomous university in 1975), Duntroon (the Faculty of Military Studies) and Jervis Bay were included there were 19,594 students and 4,522 members of staff (academic and non-academic).

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 finance, buildings and equipment, personnel matters, student affairs and public relations.
The Chairman of the Council is the Chancellor, Sir Robert Webster, and the Deputy Chancellor is the Hon. Sir Kevin Ellis.

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 postgraduate 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.
The term "faculty" is used in two distinct senses in the University. Sometimes it is used to refer to the group of Schools comprising the Faculty, and at others to the deliberative body of academic members of the Schools within the Faculty.
The eleven Faculties are Applied Science, Architecture, Arts, Biological Sciences, Commerce, Engineering, Law, Medicine, Military Studies, Professional Studies, and Science. In addition, the Board of Studies in General Education fulfils a function similar to that of the faculties.
The Board of Studies in Science is responsible for the academic administration of the Science course.

**The Schools** Once courses of study have been approved they come under the control of the individual Schools (e.g. the School of Chemistry, the School of Mathematics, etc.). The professorial Head of the School in which you will be studying will be 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 J. B. Thornton, Professor R. E. Vowels and Professor A. H. 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. C. G. Plowman, the Bursar, Mr. T. J. Daly, and the Business Manager (Property), Mr. R. K. Fletcher.

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

The Bursar's Division is concerned with the financial details of the day-to-day administration and matters to do with staff appointments, promotions, etc. 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 are 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 take place towards the end of the academic year for a one-year term of office.

**Open Faculty Meetings**

If you wish you may attend a Faculty meeting. You should advise the Chairman of the Faculty you wish to attend, as different faculties have their own rules for the conduct of open meetings.

**Identification of Subjects by Numbers** Each subject provided by a School has an identifying number. The integer is the identifying number of the School and the numbers after the decimal point
distinguish the subject from others conducted by that School, some of which may have the same name. For example, Physics I has several variations. The subject number 1.001 denotes Physics I and is the physics subject included in first year Applied Science, Science and Engineering course programmes; 1.011 is the corresponding subject at a higher level; 1.081 is the special Physics I subject included in the first year Medicine course; and so on.

As well as providing a clear means of identifying subjects with the same or similar names, the subject number is also used in the recording of enrolment and examination information on machine data processing equipment. It is therefore emphasized that students should cite both the correct subject name, subject number and course code in all correspondence or on forms dealing with courses.

You should become familiar with the identifying numbers of the Schools in which you will be studying, according to the following list:

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In Section D of the Calendar a short syllabus is given for each subject.
The Library

The University Library is on the upper campus and adjacent to the Chancellery and the Sciences, Arts and Commerce Buildings. It contains about 650,000 books and subscribes to more than 18,000 periodicals.

Students may borrow books by presenting a current Union card and the books at the Circulation Desk. New students can collect temporary borrowing cards at the Library in Orientation Week. It is recommended that students attend the *Introduction to the Library* held during Orientation Week and the first week of Session 1.

Specific library problems should be referred to the Reader Assistance Unit located in the foyer of the Library. Copies of the *Library Guide* are available on request.

The Bio-Medical Library is located in the Biological Sciences Building. The Law Library is on the 4th Floor of the Sciences Building. A Physical Sciences Library is being developed at present in the main Library building.

Accommodation

There are seven residential colleges on campus which offer accommodation to male and female students. The philosophy of the management, the residence fees and facilities vary from college to college. It is anticipated that the fees in most colleges will be increased for 1975. In addition, assistance is provided in finding off-campus accommodation.

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. Board and residence fees, which are payable on a session basis, amount to slightly more than $30 per week. Apply in writing to the Master, P.O. Box 24, Kensington, N.S.W. 2033.

International House

International House accommodates over 120 students from Australia and twenty other countries. Preference is given to more senior undergraduates and postgraduate students. Fees in 1974 were $28 per week. Apply in writing to the Warden, International House, P.O. Box 88, Kensington, N.S.W. 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. Fees in 1974 were $31 for undergraduates and $32 for postgraduate students. Fees may change in 1975. Enquiries should be addressed to the Master, New College, Anzac Parade, Kensington, N.S.W. 2033.
Shalom College  Shalom College provides accommodation for 86 men and women students. The basic fee for residence in 1975 is $38 per week. 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, P.O. Box 1, Kensington, N.S.W. 2033.

Warrane College  An affiliated Roman Catholic residential college, Warrane provides accommodation for 200 men students, both postgraduate and undergraduate. Basic fees in 1974 were $30.50 per week for board and residence, payable on a session basis. Apply in writing to the Master, Warrane College, P.O. Box 123, Kensington, N.S.W. 2033.

Off-campus Housing  The Student Amenities and Recreation Unit maintains an up-to-date record of different types of off-campus housing including hostels, full board, bed and breakfast, flats and houses for rent. For information and assistance apply to the Housing Officer, Hut B, at the foot of Basser Steps (extension 3260).

Student Employment  The Student Employment 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 programme 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 postgraduate scholarships is also available. The service is located in the Chancellery on the ground floor. Telephone extension 3259 for employment and careers advice, or extension 2086 for cadetships and industrial training information.

Student Health  The Student Health Unit, staffed by qualified medical personnel, offers free medical and first aid services to male and female students. The service is not intended to replace private or community health services and thus if chronic or continuing conditions are revealed or suspected you will be advised and referred to your own doctor or an appropriate hospital. The health service is not responsible for fees incurred in these instances. Confidential appointments can be made at Hut E at the foot of Basser Steps between 9 a.m. and 5 p.m. Monday to Friday, and 6 p.m.-9 p.m. on Tuesdays and Thursdays. Telephone extension 2679 or 3275.
**Student Counselling and Research Unit**  
The Student Counselling and Research Unit provides individual and group counselling for all students—prospective, undergraduate and postgraduate. If you have any personal needs, worries or confusion use this free, informal, personal service to help you sort out the basic issues. If the counsellor can't help you himself he usually knows someone who can.
Confidential appointments are made by dropping in to the counselling unit (Huts B and I at the foot of Basser Steps) or by telephoning extensions 2600-2605 between 9.00 a.m. and 5.00 p.m. Evening appointments are also available.

**Student Amenities and Recreation Unit**  
This Unit, working in close liaison with the Sports Association, assists various recognized clubs by arranging and providing facilities and by handling on their behalf all inquiries and applications for membership.
It also provides a recreational programme for students and staff at the Physical Education and Recreation Centre; liaises with the Public Transport Commission of New South Wales on matters concerning student travel concessions; and assists students in finding suitable accommodation off the campus.
Concessional application forms for all types of travel may be obtained at the Student Amenities and Recreation Unit or at the Inquiry Desk in the Chancellery.
The Student Amenities and Recreation Unit is located in Hut B at the foot of Basser Steps. The various services may be contacted by phone on the following extensions: Sports Association, 2235; Physical Education and Recreation Centre, 3271; Travel, 3261; Accommodation, 3260.

**Physical Education and Recreation Centre**  
The Physical Education and Recreation Centre consists of eight squash courts and a main building. The latter has a large gymnasium and ancillary practice rooms for fencing, table tennis, judo, weight-lifting and a physical fitness testing room. The Supervisor of Physical Recreation is responsible for the Centre and provides a recreational programme for both students and staff. If you would like to take part in any of the programmes contact the Supervisor on extension 3271.

**The University Union**  
The University Union provides the facilities students, staff and graduates require in their daily University life and thus an opportunity for them to know and understand one another through associations outside the lecture room, the library and other places of work.
The Union is housed in three buildings near the entrance to the Kensington Campus from Anzac Parade. These are the Roundhouse, the Blockhouse and the Squarehouse. Membership of the Union is
compulsory for all registered students and is open to all members of staff and graduates of the University.

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

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.

Membership is compulsory at $10 per annum.

The activities of the Students' Union include:
(a) 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.
(b) A casual employment service.
(c) Organization of Orientation Week.
(d) Organization of Foundation Day.
(e) A nursery/kindergarten, "The House at Pooh Corner".
(f) Publication of the student paper "Tharunka".

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.

Student Clubs and Societies

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; Ngunnagan Club; Kite Club and the Jazz Society.
The Sports Association  The Sports Association caters for a variety of competitive sports for both men and women. Membership of the Association is compulsory for all registered students and the annual subscription is $4.00.

Details of sporting facilities are available in “Action 75”, available at the Student Amenities and Recreation Unit (Hut B at the foot of Basser Steps).

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

Chaplaincy Centre  This service is provided for the benefit of students and staff by five Christian Churches and by the Jewish congregation. Chaplains are in attendance at the University at regular times. A Chapel is also available for use by all denominations.

The University Chapel is in Hut F near the Chemistry Building, where full-time chaplains are also located. They may be contacted by phone at the following extensions: Anglican, 2684; Jewish, 3273; Roman Catholic, 2379; Churches of Christ, Methodist and Seventh Day Adventist, 2683.

University Co-operative Bookshop Limited  Membership is open to all students, on payment of a fee of $5.00, 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 a.m. to 1.00 p.m. and from 2.00 p.m. to 4.30 p.m., Monday to Friday. It is open for additional periods during the first four weeks 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, R.A.N.R., at the School of Chemical Engineering. Phone 663 0351, extn. 2406.
University of New South Wales Regiment: The Adjutant, Regimental Depot, Day Avenue (just west of Anzac Parade).
Air Force Squadron: The N.S.W. University Squadron has ceased to exist but students interested in the Royal Australian Air Force may apply for information to The Commanding Officer, N.S.W. Air Training Corps, 7 Hickson Road, Millers Point, N.S.W. 2000. Telephone 27 5412.
Tertiary Education Assistance Scheme

The Tertiary Allowance Scheme, first introduced in 1974, has been renamed the Tertiary Education Assistance Scheme. Under this scheme assistance is available as follows:

• for full-time study in approved courses
• subject to a means test
• on a non-competitive basis
• without restriction
• to students who are not bonded
• to students who are permanent residents of Australia.

The following types of university courses will be eligible for assistance:

• Undergraduate and postgraduate degree courses
• Postgraduate diplomas
• Approved combined Bachelor degree courses
• Master's qualifying courses where the course is the equivalent of an honours year and the student has not attempted an honours year.

Benefits

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 $6,300 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 $6,300 p.a. the amount of living allowance will be reduced by $2 for every $10 of income until the family income exceeds $12,600 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 p.a.

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 $8 per week for a dependent spouse and $5 per week for each child.

How To Apply

Two different forms are used:

1 1974 Higher School Certificate candidates will be sent forms in early January. Applications should be made immediately after enrolment.

2 All other students should apply by 31st October. Forms will be sent in September to students who have been receiving an allowance. Other students may obtain forms from the Admissions Section or the Student Employment and Scholarships Unit, or from the Regional Director, N.S.W. State Office, Department of Education, Central Square, 323 Castlereagh Street, Sydney, N.S.W. 2000 (Telephone 2 0929).

Scholarships, Cadetships

1 Undergraduate Scholarships  In addition to finance provided under the Australian Government's Tertiary Education Assistance Scheme there are a number of scholarships, cadetships and other forms of assistance available to undergraduate students.

Details of procedures for application for these awards are contained in the University Calendar.

Further information and advice regarding scholarships is available from the Student Employment and Scholarships Unit in the Chancellery Building.

2 Postgraduate Awards  An honours degree is generally an essential requirement for gaining one of the many postgraduate 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 postgraduate 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.

(a) The Students' Union and the University have co-operated to provide assistance to students who are in financial difficulties which are considered likely to prejudice their studies.

Three main 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.

In exceptional circumstances the University may consider granting deferments for up to twelve months or even longer. In cases where payment is deferred to 31st December, examination results will not be published or made available until such time as the outstanding fees are paid. Where deferments are granted to a date beyond 31st December, the University may require the student to enter into a formal agreement to repay the fees.

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 Long Term Cash Loans An amount of up to $300 is available from this fund. Repayments must be started not later than twelve months after graduation or upon withdrawal from the course. This scheme is funded jointly by the University and the Students' Union. Students are required to enter into a formal agreement with the University to repay such a loan.

(b) 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 twelve months 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 of funds as mentioned in the preceding paragraph students who are in extremely difficult financial circumstances may apply for assistance by way of non-repayable grant. In order to qualify for a grant a student must generally show that the financial difficulty has arisen from misfortune beyond his control.

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

Applications may be made personally to the Deputy Registrar (Student Services), Room 148A, 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 enquiries relating to this scheme should be directed to the Deputy Registrar (Student Services), Room 148A, The Chancellery.
The University, in common with other large organizations, has some agreed ways of doing things in order to operate efficiently and equitably 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.

The information is arranged as answers to questions most asked by students. The first group of questions concerns admission and enrolment, the second fees and other money matters, the third examinations, and the remainder more general matters such as student conduct on campus.

### Admission and Enrolment

**How do I qualify for admission?** In order to enter an undergraduate course you must qualify for matriculation to the University; satisfy requirements for admission to the course of subjects chosen; and be selected for admission to the faculty or course you wish to enter. Full details of matriculation and admission requirements are contained in a pamphlet obtainable at the Admissions Office and in the University Calendar.

**When and where do I enrol?** To effect formal enrolment it is necessary to present a duly completed and authorized enrolment form to the University cashier together with, where payable, either the appropriate fees, or an authority authorizing those fees to be charged to some other person or institution.

All students are required to attend the appropriate enrolment centre during the prescribed enrolment period for authorization of course programme. Failure to do so will incur a fee of $10. These enrolment centres and the times are listed in a leaflet called “Enrolment Procedures” which is available from the Admissions Office.

Fees should be paid during the prescribed enrolment period but will be accepted during the first two weeks of Session 1 (for late fees see below). No student is regarded as having completed enrolment until fees have been paid. Fees will not be accepted (i.e. enrolment cannot be completed) from new students in year-long courses after 14th March, 1975, and after 31st March from students who are re-enrolling, except with the express approval of the Registrar, which will be given in exceptional circumstances only.

Students enrolling for the first time in any year at the commencement of Session 2 for Session 2 courses only are required to pay all fees due within the first two weeks of that Session. Students’ Activities fees payable will be half of the annual fees.
Medical Students

Although the structure of the academic year in the later years of the course in Medicine differs from that followed in other courses, medical students are required to observe the same dates for payment as apply to students in other courses.

How do assisted students (e.g. 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. If this voucher or letter is not available when enrolling they should complete their enrolment paying their own fees. A refund of fees will be made when the enrolment voucher or letter of authority is subsequently lodged with the Cashier.

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.

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. Your application must give year or stage, whether full-time or part-time, and the course in which you wish to enrol. State clearly and fully the reasons why payment cannot be made and the extension is sought and lodge your application before the date on which a late fee becomes payable. Normally the maximum extension of time for the payment of fees is one month for fees due in Session 1 and one month from the date on which a late fee becomes payable in Session 2.

If an extension of time is granted to a first year student in Session 1 the student may only attend classes on the written authority of the Registrar. This authority will not normally be given in relation to any course where enrolments are restricted.

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.
You will not be eligible to attend the annual examinations in any subject if any portion of your fees for the year is outstanding after the end of the fourth week of Session 2 (15th August, 1975).

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

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 17th 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 programme? If you wish to seek approval to substitute one subject for another, add one or more subjects to your programme or discontinue part or all of your programme, 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 must be submitted by 31st March.

It is emphasized that failure to sit for examinations in any subject in which you are enrolled will be regarded as failure to satisfy the examiners in that subject unless written approval to withdraw without failure has been obtained from the Registrar.

Withdrawal from subjects

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

First Year Students

1 one-session subjects: the end of the eighth week of session;
2 double-session subjects: the end of the second week of Session 2.

For the purpose of this rule a first-year student is defined as one who is attending the University for the first time either on a full- or part-time basis and is enrolled in the first year or first stage of a course.

Other Students

1 one-session subjects: one calendar month from the beginning 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 in December of the preceding year or before 17th January of the same year that 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 the end of 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. They apply to all students other than those enrolled in programmes leading to a higher degree or diploma. It should be noted that these rules are independent of one another in that a student may infringe more than one rule simultaneously. A subject is defined as a unit of instruction identified by a distinctive subject number. At present the Appeal Committee referred to in Rule 8 consists of a Pro-Vice-Chancellor (Chairman), the Chairman of the Professorial Board, and the Member of Council elected by the graduates of the University. The Pro-Vice-Chancellor is Professor J. B. Thornton.

First-year Rule

i A student enrolled in the first year or first stage of any course, other than course 380, the Medical (MB BS) degree course, shall be required to show cause why he should be allowed to continue the course if he fails more than half the subjects in that year or stage.

ii A student enrolled in the first year of course 380, the Medical (MB BS) degree course, shall be required to show cause why he should be allowed to continue the course if he fails more than two subjects in that year.

iii The provisions of paragraphs (i) and (ii) shall be deemed to apply to a student enrolled in the second or later year or the second or later stage of any course who has transferred from another course or institution and who, in the first year of enrolment immediately following transfer, is enrolled in subjects so chosen that half or more are listed in the current University Calendar as first-year subjects.
Repeated-failure Rule

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

Time Rule—Completion of Years or Stages

3 i A full-time student in either course 340, the Arts (BA) degree course, or 403, the Social Work (BSW) degree course, shall be required to show cause why he should be allowed to continue the course if he is unable to complete eight one-session subjects (or the equivalent) by the end of his second year of attendance.

ii Unless the provisions of paragraph (i) apply, a full-time student shall be required to show cause why he should be allowed to continue a course if he is unable to complete all subjects in the first year of the course by the end of his second year of attendance.

iii A student in course 380, the Medical (MB BS) degree course, shall be required to show cause why he should be allowed to continue the course if he is unable to complete all subjects in the second year of the course by the end of his third year of attendance and the third year by the end of his fourth year.

iv A part-time student in course 397, the Science (BSc) degree course, shall be required to show cause why he should be allowed to continue the course if he is unable to complete eight level-one units, including two in mathematics, by the end of his fourth year of attendance and fourteen units, including at least three at level two, by the end of his seventh year.

v Unless the provisions of paragraph (iv) apply, a part-time student shall be required to show cause why he should be allowed to continue a course if he is unable to complete all subjects in the first two stages of the course by the end of his fourth year of attendance and the third and fourth stages by the end of his seventh year.

Time Rule—Completion of Course

4 A student shall be required to show cause why he should be allowed to continue a course which he is unable to complete in the time set down in the following schedule:

<table>
<thead>
<tr>
<th>Number of years in course</th>
<th>Total years allowed from first enrolment to completion</th>
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<td>3</td>
<td>5</td>
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<td>4</td>
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Continuation Rule
5  A student enrolled in a course who has transferred with a record of failure from another tertiary institution shall be required to show cause why he should be allowed to continue the course if he fails more than half the subjects in his first year of enrolment immediately following transfer.

ii A student excluded from a course under the provisions of the Rules who has subsequently been allowed to re-enrol in that course or to transfer to another course shall show cause why he should be allowed to continue the course if he fails one or more subjects in his first year of re-enrolment or transfer.

General Exclusion Rule
6 The Vice-Chancellor may, on the recommendation of the Re-enrolment Committee of the Professorial Board, exclude from a course or courses any student who has been excluded from any other course under the provisions of the Rules and whose record at the University demonstrates the student's lack of fitness to pursue such course or courses.

'Showing Cause'
7  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 should be lodged with the Registrar.

ii Any such application shall be considered by the Re-enrolment Committee which shall determine whether the cause shown is adequate to justify the student's being allowed to re-enrol.

Appeal
8  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 the Appeal Committee constituted by Council for this purpose. The decision of the Appeal Committee shall be final. In lodging such appeal with the Registrar the student should ensure that a complete statement is furnished of all grounds on which the appeal is based.

ii The notification to any student of a decision by the Re-enrolment Committee to exclude him from re-enrolling in a course and/or subject(s) shall indicate that the student may appeal against that decision to the Appeal Committee.
iii The Appeal Committee shall determine the appeal after consideration of the student's academic record and the stated grounds. In exceptional circumstances the Appeal Committee may require the student to appear in person.

Exclusion

9 i A student who is required to 'show cause' under the provisions of Rule 1 and either does not attempt to 'show cause' or whose application for special permission to re-enrol does not satisfy the Re-enrolment Committee (or the Appeal Committee on appeal) shall be excluded from re-enrolling in the subject(s) and course on account of which he was required to 'show cause'. Where the subjects are a prescribed part of any other course (or courses) he shall not be allowed to enrol in that course (or courses).

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

iii A student who is required to 'show cause' under one or more of Rules 3-5 and either does not attempt to 'show cause' or whose application for special permission to re-enrol does not satisfy the Re-enrolment Committee (or the Appeal Committee on appeal) shall be excluded from re-enrolling in the course on account of which he was required to 'show cause'.

iv A student excluded from a course under the provisions of any one or more of paragraphs (i)-(iii) may not enrol in miscellaneous subjects unless he has received the approval of the Admissions Committee of the Professorial Board.

Re-admission after Exclusion

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

ii An excluded student who intends applying for re-admission at a future date may seek advice as to ways in which he may enhance his prospects of re-admission. Such enquiries should be made on the form available from the Examinations and Student Records Section and should be lodged with the Registrar.

iii 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 31st August in the year prior to that for which re-admission is sought. A late application will only be accepted at the discretion of the University.

iv An application should include:

(a) evidence of appropriate study in the subject(s) (or the equivalent) on account of which the applicant was excluded, and

(b) 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.

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 12th September, in a student’s final year. 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 programme, must be submitted in writing to the Registrar no later than 30th January.

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Fees*

Do I have to pay fees for tuition? No. On 1st January, 1974, fees for tuition were abolished. Other fees and charges remain payable.

What other fees and charges are payable? These 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. Late fees are charged where a student fails to observe required procedures by the appropriate time. 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 and 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 undergraduate students and students taking miscel-

* Fees quoted are current at the time of publication and may be amended by the Council without notice.
laneous subjects (with the exception of External Students) will be required to pay:

University Union†—$20 entrance fee

Student Activities Fees

University Union†—$30 annual subscription
Sports Association†—$4 annual subscription
Students' Union†

Students enrolling in full-time courses—$10 annual subscription
Students enrolling in part-time courses—$8 annual subscription

Miscellaneous—$17 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.)

Where applicable, students will also be required to pay $10 for the Pathology Instrument Kit, refundable on return in satisfactory condition.

The Deputy Registrar (Student Services) may, on application, waive student fees for students who, while enrolled in a degree or diploma course at another University in New South Wales, are given approval to enrol at the University of New South Wales in miscellaneous subjects which will be acceptable for credit towards the degrees or diplomas for which they are enrolled.

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.

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

† Life members of these bodies are exempt from the appropriate fee or fees
What penalties exist for late payment of fees? The following additional charges will be made in 1975 when fees are paid late:

**Session 1—First Enrolments**

- Fees paid on the late enrolment date, 28th February or later but before 3rd March: $10
- Fees paid between 3rd and 14th March: $20
- Fees paid after 14th March with the express approval of the Deputy Registrar (Student Services) and Head of the School concerned: $40

**Session 1—Re-enrolments**

- Failure to attend enrolment centre during enrolment week 24th to 28th February: $10
- Fees paid between 17th and 31st March: $20
- Fees paid after 31st March where accepted with the express approval of the Deputy Registrar (Student Services): $40

**Session 2—All Enrolments**

- Fees paid between 4th and 11th August: $20
- Fees paid thereafter: $40

Will I receive any refund if I withdraw from a course? Yes. The following rules apply:

1. If you withdraw from a course 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 a refund of all fees paid will be made. After that time only a partial refund will be made.

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**Examinations**

When are examinations held? Most annual examinations are held in November-December but examinations in many subjects are also held during the mid-year recess.

Provisional timetables indicating the dates and times of examinations and notices of the location of examinations are posted on the central notice boards in the Wallace Wurth Medical School, Biological Sciences Building, the Chancellery, Central Lecture Block, Dalton Building (Chemistry), Main Building (Mining and Physics), outside the Sciences Building and in the Western Grounds Area on 6th May and 23rd September. You must advise the Examinations Unit (Chancellery) of a clash in examinations by 19th May and 3rd October. Final timetables are displayed and individual copies are available for students on 3rd June and 21st October.
Misreading of the timetable is not an acceptable excuse for failure to attend an examination.

In the assessment of your progress in University courses, consideration is given to work in laboratory and class exercises and to any term or other tests given throughout the year as well as to the results of written examinations.

How are examination passes graded? Passes are graded: High Distinction, Distinction, Credit and Pass. 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 30th November) or to your vacation address (fill in a form obtainable at the Enquiry Desk, Chancellery, also by 30th November). Results are also posted on School noticeboards 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 following dates:

Annual examinations held in
November/December, 1974 ....... Friday, 10th January, 1975
Deferred examinations held in
January/February, 1975 ....... Tuesday, 25th February, 1975
Annual examinations held in
November/December, 1975 ....... Friday, 9th January, 1976
Deferred examinations held in
January/February, 1976 ....... Tuesday, 24th February, 1976

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 at an examination 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, not later than seven days after the date of the examination.

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.

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 Section A of the University 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 Enquiry 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.
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, beyond prohibiting gambling on the campus and smoking during lectures, at examinations or in the library.

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 conduct yourself at all times in a seemly fashion.

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 programme 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; 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 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 at the University Union Enquiry Desk as soon as possible after fee payment. In the meantime, the fees receipt form should be carried during attendance at the University and shown on request. A period of at least three weeks should be allowed to elapse after payment of fees before making application for the card. Cards will not be posted under any circumstances.

**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 not reaching you. The University cannot accept responsibility if official communications fail to reach students who have not notified their change of address. A Change of Address Advice Form is available at Faculty and School offices and at the Enquiry Counters on the Ground Floor of the Chancellery Building.

**How are student records kept up to date?** All students will receive enrolment details forms by 29th April and 1st September. It is not necessary to return these forms unless any information recorded thereon is incorrect. Amended forms must be returned to the Examinations and Student Records Section by 13th May and 15th September respectively. Amendments notified after the closing date will not be accepted unless exceptional circumstances exist and approval is obtained from the Registrar. Where a late amendment is accepted, a late fee of $8 will be payable. 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?** Because of the limited amount of parking space available, only the following categories of students may apply for a permit: motor cycle owners (annual fee $3.90); higher degree students (limited issue, annual fee $7.80);
postgraduate, and senior undergraduate students who have completed three years of a full-time or part-time course (annual fee $3.90). A permit will allow access to the campus between 5 p.m. and 11 p.m. on weekdays and during library hours on Saturdays, Sundays and public holidays. Enquiries should be made to the Property Section, Room 240, the Chancellery, or phone 663 0351, extension 2920. It should be noted that increasing demand for parking space may require the imposition of further restrictions.

Lost Property? All enquiries concerning lost property should be made to the Superintendent on extension 2503 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.

Admissions Office

The Admissions Office provides students with information concerning courses, admission requirements, scholarships and enrolment procedure.

It will receive applications from students who wish to defer or resume courses of study, to transfer from one course to another, or seek any concession in relation to a course in which they are enrolled. These applications should, wherever possible, be lodged before the beginning of the academic year in which the concession is to apply. Students in doubt as to whether an application is necessary to cover their own particular situation should enquire at the Admissions Office. The Admissions Office is located in the Chancellery on the upper campus. Office hours are from 9 a.m. to 1 p.m. and 2 p.m. to 5 p.m. Monday to Friday. An evening service is provided during the enrolment period.

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.
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".
FOREWORD

Since the dawn of civilization man has sought to endow his environment with physical and spiritual qualities appropriate to his way of life, to explore the limits of his materials and techniques, and in so doing, to create buildings of enduring beauty. In each great culture of the past this search produced a characteristic architecture which was a true reflection of the aspirations and capabilities of its age.

Today's architects, builders and town planners face the same age-old problem, but their task is made infinitely more difficult by the complexity of modern requirements and the diversity of new materials and techniques available to them. For the first time in history material progress threatens to outstrip man's visionary powers and to overwhelm his capacity for assimilation.

Within the next twenty years the world must face a gigantic population explosion. Our building industry must undergo a revolution if it is to meet even the most elementary needs of the community, and our search for appropriate building forms must be related to the practical necessities of mass production on a hitherto unprecedented scale. The pressure will be felt in every field of human endeavour, but to those who choose to enter the land-use professions it will represent the greatest challenge and the greatest opportunity of all time.
FACULTY OF ARCHITECTURE

DEAN—Professor G. E. Roberts

CHAIRMAN—Professor J. M. Freeland

ADMINISTRATIVE OFFICER—K. J. Williams, BCom N.S.W., AASA

SCHOOL OF ARCHITECTURE

PROFESSOR OF ARCHITECTURE AND HEAD OF SCHOOL
G. E. Roberts, BArch MCD Liv., FRAIA, FRAPI, MRTPI, ARIBA

PROFESSOR OF ARCHITECTURE
J. M. Freeland, DFC, MArch DTRP Melb., MArch DLitt N.S.W., LFRAIA, FRSA

PROFESSOR OF ARCHITECTURE AND HEAD OF DEPARTMENT
OF UNDERGRADUATE STUDIES
E. C. Daniels, MArch N.S.W., ASTC, FRAIA, Hon.MIES

PROFESSOR OF LANDSCAPE ARCHITECTURE AND HEAD OF DEPARTMENT
P. Spooner, DipLD Durh., ASTC, FRAIA, FILA, FAILA, ARIBA

ASSOCIATE PROFESSORS
N. J. Anderson, BArch Syd., MArch Liv., DipTP Lond., FRAIA, MRTPI
L. P. Kollar, MArch N.S.W., ASTC, ARAIA
Mrs Anita B. Lawrence, MArch N.S.W., FRAIA, MAAS
G. Molnar, OBE, DiplIngArch T.U., Bud., FRAIA

SENIOR LECTURERS
R. E. Apperly, BArch Syd., MArch N.S.W., ARAIA
R. D. Chalmers, BSc(Eng) Lond., MIEAust, AAIB
J. Conner, DipArch Aberd., MArch N.S.W., ARIBA, ARAIA, ARIAS
R. A. G. Head, ASTC, MSc(Building) N.S.W., FRAIA, AAIB
P. T. Oppenheim, BArch Cape T., MArch PhD N.S.W., ARIBA, ARAIA
S. C. Palmer, BArch Syd., MArch N.S.W., FRAIA
A. E. R. Purkis, MArch N.S.W., FRAIA, ARIBA
C. W. Stevens, MArch N.S.W., DipTCP Syd., ASTC, ARAIA
K. J. Wyatt, BE Qld., MBdgSc Syd., MIEAust
LECTURERS

J. A. Ballinger, BArch Adel., ARAIA
C. L. Bell, BA(Arch) Calif.
R. J. Bryant, BArch N.S.W., MTCP Syd., ASTC, MRAPI, ARAIA
R. G. Fitzhardinge, DipArch (Kingston on Thames Poly.), MArch Calif., ARIBA, ARAIA
G. R. Hewett, ASTC, ARAIA
R. Hough, BSc BE N'cle (N.S.W.), MEng Tor., MIE Aust
R. C. Irving, ARMTC. FRAIA
P. A. Johnson, BArch Syd., DipCD N.S.W., ARAIA
Lorna M. Nimmo, ASTC, FRSA
I. R. Patrick, ASTC, ARIBA, ARAIA
Mrs Nancy C. Peterson, BArch N.Z., MBdgSc Syd., FIES, ANZIA, ARAIA
P. R. Proudfoot, BArch Syd., MArch Penn., PhD N.S.W., Rome Scholar
P. L. Reynolds, BArch, PhD N.S.W.
W. A. Selle, BArch Syd., FRAIA
H. A. Stephens, BArch DipLD N.S.W., ARAIA
K. H. Tang, BArch H.K., MArch Melb., ARIBA. ARAIA
B. V. Wollaston, BArch Syd., FRAIA

SENIOR TUTORS

V. M. Berk, BArch, DipAdmin N.S.W.
Mrs Marion A. Burgess, BSc Syd., DipArchAcoustics N.S.W., MAAS
Mrs Elizabeth A. Howard, BArch Syd.
P. E. Walsh, BArch N.S.W.

SENIOR INSTRUCTOR

T. J. Santry

TUTORS

J. R. Kinstler, BArch Syd.
A. Ogg, BE N.S.W.

Department of Landscape Architecture

LECTURER

F. C. Thorvaldson, BArch N.S.W., MLArch Mich., ARAIA
SCHOOL OF BUILDING

PROFESSOR OF BUILDING AND HEAD OF SCHOOL

E. Balint, MCE Melb., FIEAust, FICE, FAIB

SENIOR LECTURERS

C. W. Anderson, MBuild N.S.W., ASTC, FAIB
A. A. Jack, MBuild N.S.W., ASTC, AAIB
R. M. Miller, BBuild N.S.W., SM CE M.I.T.

LECTURERS

O. I. Greiste, ME N.S.W., DEng Calif.
D. N. Hassall, BE MBdgSc Syd., MIFIAust
G. E. Levado, BBuild MSc(Building) N.S.W., AAIB
J. F. Mooney, ASTC, FIQSA
C. D. Smythc, MBuild N.S.W., ASTC, AAIB

RESEARCH FELLOW

R. O. Phillips, BArch Syd., MArch N.S.W., FRAIA, FIES(Aust)

SCHOOL OF TOWN PLANNING

PROFESSOR OF TOWN PLANNING AND HEAD OF SCHOOL

J. H. Shaw, BE DipTCP Syd., MCD Liv., PhD N.S.W., FRAPI, MRTPI, MIFIAust

ASSOCIATE PROFESSOR

E. D. Duck-Cohen, MA Oxon., BArch Liv., DipTP Lond., FRAPI, FRTPA, ARIBA, ARAIA

SENIOR LECTURERS

J. I. King, BArch MTCP Syd., FRAPI
Mrs Zula Nittim, BArch Melb., DipCD PhD N.S.W., FRAIA

LECTURERS

D. R. Daines, DipTCD Syd., MRAPI, AVIC
N. T. Schaefer, BA N.E., PhD N.S.W.

HONORARY VISITING FELLOW

R. B. Zehner, BA Amherst, MA PhD Mich.
FACULTY INFORMATION

FACULTY OF ARCHITECTURE
COURSE RULES FOR PROGRESSION

1. Architecture: A student enrolled in the Bachelor of Science (Architecture) Course shall not progress to any subject in second year or its part-time equivalent until he has passed Graphic Communication I and Construction I or their part-time equivalents. A student of either the Bachelor of Science (Architecture) or Bachelor of Architecture Course may not progress to any subject of a higher year or its part-time equivalent until he has passed Design and Construction in the immediately preceding year or its part-time equivalent except that this rule shall not apply to the subject of Design I.

2. Building: A student enrolled in the Building Course shall not progress to a higher year or its part-time equivalent until he has passed Building Construction or Building Graphics in the immediately preceding year or corresponding stages.

3. Town Planning: A student enrolled in the Town Planning Course shall not progress to any subject in second year until he has passed Graphic Communication I nor shall he progress to any subject of a higher year until he has passed Town Planning Theory and Practice in the immediately preceding year.

PRIZES

Bachelor of Science (Architecture) Course
Byrne & Davidson Roll-a-door $100 Best student in History of Architecture I.

Architecture Degree Course
James Hardie & Co. Pty. Ltd. $100 General excellence in the architectural subjects of the course.

Royal Australian Institute of Architects, N.S.W. Chapter $50 Excellence in Design and allied subjects in final two years of course.

Board of Architects of N.S.W. $100 An outstanding graduand in the School of Architecture.

Frank W. Peplow $24 Church architecture.
Architecture

Chamber of Manufactures of N.S.W. $10 Subject selected by Head of School.

Building Degree Course

Byrne & Davidson (Mfg.) Pty. Ltd. $100 Best student, Year III.
James Hardie & Co. Pty. Ltd. $50 Best student, Year I.
Master Builders' Association of N.S.W. $200 To be allocated at the discretion of the Head of the School.

Town Planning Degree Course

The State Planning Authority of N.S.W. $150 General proficiency in the Fifth year of the course.
Royal Aust. Planning Institute, N.S.W. Division $100 BTP, Year 3.

SCHOLARSHIPS

Regent Scholarship

The Regent Scholarship is open to students who qualify at the annual examinations for admission to the Final Year course in Architecture. The scholarship provides a living allowance of at least $200 p.a. payable in session instalments.

Applications must be made on the approved form and lodged with the Registrar not later than 14th January each year.

Institute of Quantity Surveyors of Australia, N.S.W. Chapter, Scholarship

The Institute of Quantity Surveyors of Australia offers a scholarship to the value of $2000, to be awarded quadrennially to a student eligible for admission to the Bachelor of Building course. The award will be made upon the recommendation of the Dean, subject to Institute concurrence, and will be paid to the successful applicant in four annual instalments of $500, commencing with initial enrolment in the BBuild course, and thereafter at the beginning of Years 2, 3 and 4.

It is a condition of the scholarship that the recipient shall become a student member of the Institute of Quantity Surveyors of Australia, and that payment of successive instalments shall be contingent upon satisfactory progress.
Byera Hadley Scholarship

The Byera Hadley Scholarship is open to graduates and diplomates of all recognized Schools of Architecture in New South Wales. Candidates must be British subjects and must make application within three years of passing their final degree or diploma examinations. Value $3000.

Sir Manuel Hornibrook Travel Grant

The Sir Manuel Hornibrook Travel Grant is open to Licentiate or Student members of the Australian Institute of Building, from whom the Council of the Institute may invite applications in each alternate year.

The object of the Travel Grant is to advance the study and practice of building by competition for the award, and by subsequent travel overseas or interstate. The Travel Grant shall be of such value as the Council may from time to time determine. Details are obtainable from the Australian Institute of Building, N.S.W. Chapter.

Master Builders’ Association Postgraduate Scholarship

The Master Builders’ Association of N.S.W. offers a scholarship valued at $500. The terms of the award state that it shall be made annually to a student who has enrolled in the Master of Science (Building) Course. In practice it has been found more appropriate to award two such scholarships biennially. Successful applicants will receive $250 at the commencement of their studies and a further $250 upon entry to their second year.

Alex Rigby Award

The Alex Rigby Award, consisting of a certificate and cheque for $105 is available to a candidate for the degree of Master of Building, and will be awarded upon the recommendation of the Head of the School to the author of a worthy Thesis, submitted within the year ending 31st March.
BUILDING RESEARCH LABORATORY

The Faculty controls a Building Research Laboratory situated in the University of New South Wales Research Station, King Street, Randwick. The Laboratory which concentrates on post-graduate research and research for industry has sections equipped for work on Environment and Climate, Materials, Model Testing, Services, Lighting and Acoustics. The Laboratory has extensive testing and research equipment and workshop facilities including a wind-rain machine, a weatherometer, an artificial sky, a structural testing bay and a controlled atmosphere chamber. The equipment and facilities of the Laboratory are continually being expanded. Research work and testing programmes carried out in the Laboratory include:

- Efficiency of tiled roofs of various pitch, under extreme weather conditions.
- Study of the performance of bricks and brickwork.
- Condensation behaviour of double-glazed windows.
- Abrasion properties of floor materials.
- Transfer of heat and moisture through wall elements.
- Vibration characteristics of large pre-stressed concrete structures.
- Applications of mortar-mesh (ferro-cimento) structures in building.
- Penetration of moisture into and through concrete.
UNDERGRADUATE COURSES

The Faculty of Architecture conducts undergraduate courses in the fields of Architecture, Landscape Architecture, Building, and Town Planning. These courses provide thorough training in the arts and sciences which today govern the design and construction of buildings and the balanced growth of cities. In addition to professional and vocational training, the courses include general studies in order to provide graduates with a broad understanding of the humanities and social sciences. The Faculty comprises the School of Architecture, School of Building and School of Town Planning.

SCHOOL OF ARCHITECTURE

THE COURSE IN ARCHITECTURE—BSc(Arch) AND BArch

Architects play a vital part in the nation's physical and cultural growth. Their contribution to society is primarily one of design, but includes a consideration of such practical factors as economy, efficiency and durability. Indeed architecture may be defined as a complete synthesis of art and science, and the syllabus of study has been arranged to achieve this end.

Training in architecture consists of two courses:

The course leading to the Bachelor of Science (Architecture) degree provides a fundamental training in the sciences underlying building technology. It is designed to impart the basic knowledge and information, to develop skills, techniques and working methods, and to encourage the intellectual attitudes that are necessary for the practice of architecture. It contains a balance of Science and Mathematics, Building Technology, graphics, history, humanities and creative design in projects that progress from the simple to the more complex.

The course leading to the Bachelor of Architecture degree builds upon the knowledge and experience gained in the BSc(Arch) course. Architectural design assumes major importance, for it is through this subject that students learn to integrate all the contributory training they have received. However, the
common core subjects taken by all students are handled in such a manner as to allow a student to concentrate on those aspects which most interest him. In addition, a wide variety of elective subjects allows the student to choose so that he may extend his study either in breadth or depth.

The Bachelor of Science (Architecture) Course

The course leading to the Bachelor of Science (Architecture) degree normally requires three years full-time attendance at the University. The course may be taken by part-time study; each full-time year is equivalent to two part-time stages. Students may transfer to full-time study from the second part-time year (1B) or the fourth part-time year (2B) at their successful completion of Stages 1B or 2B.

Students must apply to the Registrar to transfer from the part-time to full-time courses, or vice versa. See “Course Transfers”.

Students in the part-time course must be concurrently engaged in approved practical experience (see “Practical Experience” below), for the whole of their part-time attendance.

On satisfactory completion of the course, a student is awarded the degree of Bachelor of Science (Architecture).

The holding of the degree of Bachelor of Science (Architecture), or its equivalent, is a requirement for selection into the Bachelor of Architecture course. It is also an eligible first degree for a number of other post-graduate courses offered by the University (see University of New South Wales Calendar, “Post-graduate Studies”).

The Bachelor of Architecture Course

Students wishing to apply for admission to the Bachelor of Architecture course must hold the degree of Bachelor of Science (Architecture) or approved equivalent qualification. Admission to the Bachelor of Architecture course is selective and is based on the ability revealed and the performance achieved up to the awarding of the Bachelor of Science (Architecture) degree. Selection is made according to a points score determined by a formula approved by the University Council and administered by the Bachelor of Architecture Admissions Committee of the Faculty of Architecture. It should be noted that possession of a BSc(Arch) degree does not automatically ensure admission to the BArch course.
While the first year of the course requires no formal attendance at the University, students are required to enrol in the normal manner. In this period the student is required to obtain practical experience (see Practical Experience below). Students who whilst in the Bachelor of Science (Architecture) course have satisfactorily completed three years of part-time study (one of which is equivalent to Stage 3B), and have obtained approved practical experience during the whole of the period of part-time attendance shall not be required to complete the first year of the Bachelor of Architecture degree course. On satisfactory completion of the course the student is awarded the degree of Bachelor of Architecture.

The second and third years of the course are available by full-time attendance only.

Practical Experience

During the whole of the period of part-time attendance in the Bachelor of Science (Architecture) degree course and for the first year of the Bachelor of Architecture course a student is required to be employed on architectural work under the supervision of an approved architect. For this purpose an architect registered under any Australian State Architects' Registration Act is considered to be an approved architect. Students wishing to gain their practical experience under the supervision of any other person must submit the circumstances to the Head of School for approval.

Honours

The Bachelor of Architecture degree may be conferred with Honours based upon the quality of performance and in accordance with the current Faculty regulations. Honours will be Class I or Class II Division 1 or Class II Division 2.

The 1967 Course in Architecture

The first year of the 1967 course was withdrawn in 1969, and successive years will be withdrawn annually.

Subjects in the 1967 course will be phased-out by substituting approximately equivalent subjects from the present architecture courses. Students enrolled in the 1967 course should refer to the Head of School for their programmes of study. Students enrolled in the 1967 course will be required to complete their studies in the number of years/stages remaining in their course in 1970, plus one.
Honours in this course may be awarded, as above, but are dependent upon a student taking the Thesis subject in their final year.

Registration and Professional Recognition

Students enrolled in the Bachelor of Science (Architecture) and Bachelor of Architecture degree courses are eligible to become Student Members of the Royal Australian Institute of Architects.

The degree of Bachelor of Science (Architecture) is not recognised by the Board of Architects of N.S.W. for registration for practice as an architect but is recognised by the Royal Australian Institute of Architects as an eligible qualification for an Affiliate membership provided the candidate produces evidence of two years' approved practical experience, at least one of which has been subsequent to successful completion of the course.

The degree of Bachelor of Architecture of the University of New South Wales is recognized by the Board of Architects of New South Wales for the purposes of legal registration provided the candidate can satisfy the following requirements:—

(a) produce evidence of two years' approved practical experience, at least one of which has been subsequent to successful completion of the course; and

(b) pass a special examination in Architectural Practice.

Graduates who satisfy the registration requirements of the Board of Architects of New South Wales as listed above under (a) and (b) are eligible for Associate Membership of the Royal Australian Institute of Architects, and thereby of the Royal Institute of British Architects.

The foregoing is a general statement, and students are strongly advised to obtain further particulars from the Institutes and the Board of Architects of New South Wales.
337. BACHELOR OF SCIENCE (ARCHITECTURE) COURSE
Bachelor of Science (Architecture)

Hours per week for 2 sessions

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>FULL-TIME PROGRAMME</th>
<th>PART-TIME PROGRAMME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stage 1A</td>
<td>Stage 1B</td>
</tr>
<tr>
<td>11.111</td>
<td>Design I</td>
<td>1</td>
</tr>
<tr>
<td>11.121</td>
<td>History of Architecture I</td>
<td>1</td>
</tr>
<tr>
<td>11.131</td>
<td>Graphic Communication I</td>
<td>9</td>
</tr>
<tr>
<td>11.1311</td>
<td>Graphic Communication IA</td>
<td>0</td>
</tr>
<tr>
<td>11.1312</td>
<td>Graphic Communication IB</td>
<td>0</td>
</tr>
<tr>
<td>11.211</td>
<td>Construction I</td>
<td>5</td>
</tr>
<tr>
<td>11.221</td>
<td>Structures I</td>
<td>3</td>
</tr>
<tr>
<td>11.271</td>
<td>Architectural Science I</td>
<td>9</td>
</tr>
<tr>
<td>11.2711</td>
<td>Architectural Science IA</td>
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<td>13</td>
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First year students may be required to participate in a practical construction programme outside the metropolitan area, involving a field exercise of approximately two weeks duration.

<table>
<thead>
<tr>
<th>YEAR 2</th>
<th>Stage 2A</th>
<th>Stage 2B</th>
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<tbody>
<tr>
<td>11.112</td>
<td>Design II</td>
<td>7</td>
</tr>
<tr>
<td>11.122</td>
<td>History of Architecture II</td>
<td>1</td>
</tr>
<tr>
<td>11.132</td>
<td>Graphic Communication II</td>
<td>6</td>
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<tr>
<td>11.212</td>
<td>Construction II</td>
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<tr>
<td>11.222</td>
<td>Structures II</td>
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</tr>
<tr>
<td>11.272</td>
<td>Architectural Science II</td>
<td>2</td>
</tr>
<tr>
<td>General Studies Elective</td>
<td>1½</td>
<td>1½</td>
</tr>
<tr>
<td></td>
<td>27</td>
<td>13</td>
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</table>

In Session 2 the subject Construction II includes 29.411, Surveying for Architects and Builders consisting in a weekly lecture of one hour and seven practical lessons of three hours.
### YEAR 3

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Stage 3A</th>
<th>Stage 3B</th>
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<tr>
<td>11.123</td>
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<td>11.133</td>
<td>Graphic Communication III</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>11.213</td>
<td>Construction III</td>
<td>8</td>
<td>0</td>
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<td>11.2131</td>
<td>Construction IIIA</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>11.2132</td>
<td>Construction IIIB</td>
<td>0</td>
<td>3</td>
</tr>
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<td>11.223</td>
<td>Structures III</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>11.273</td>
<td>Architectural Science III</td>
<td>2₂⁻¹</td>
<td>2⁻¹</td>
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<tr>
<td>11.331</td>
<td>Estimating and Specifications</td>
<td>1</td>
<td>0</td>
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<td></td>
<td>General Studies Elective</td>
<td>1₂⁻¹</td>
<td>1⁻¹</td>
</tr>
<tr>
<td></td>
<td></td>
<td>27</td>
<td>13⁻¹</td>
</tr>
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### 330. BACHELOR OF ARCHITECTURE COURSE

Bachelor of Architecture

### YEAR 1

**Practical Experience**

<table>
<thead>
<tr>
<th>Hours per week for 2 sessions</th>
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<td></td>
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### YEAR 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>SESSION 1</th>
<th>SESSION 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.151</td>
<td>Architecture A</td>
<td>15</td>
<td>15</td>
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<tr>
<td></td>
<td>Electives</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>11.171A</td>
<td>Thesis</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>36.411</td>
<td>Town Planning</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>24</td>
<td>22</td>
</tr>
</tbody>
</table>

* Students who have obtained approved practical experience for the full duration of at least three years of part-time study (one of which shall be Stage 3B) shall not be required to complete the first year of the Bachelor of Architecture course.

† Second year electives to a total minimum weekly time of five and a half hours to be freely selected from the following, at least one hour being taken from either sub-section (b) or (c):

‡ See footnote † on next page.
### YEAR 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours per week for 2 sessions</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.152</td>
<td>Architecture B</td>
<td>15</td>
</tr>
<tr>
<td>11.321</td>
<td>Professional Practice</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Electives*</td>
<td>5</td>
</tr>
<tr>
<td>11.171B</td>
<td>Thesis†</td>
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</tr>
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<td></td>
<td>23</td>
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</table>

#### Hours per week for one session

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.2241</td>
<td>Structures A1</td>
<td>2</td>
</tr>
<tr>
<td>11.2242</td>
<td>Structures A2</td>
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</tr>
<tr>
<td>11.226</td>
<td>Properties of Materials</td>
<td>2</td>
</tr>
<tr>
<td>11.227</td>
<td>Behaviour of Materials</td>
<td>2</td>
</tr>
<tr>
<td>11.8111</td>
<td>Theory of Architecture A1</td>
<td>2</td>
</tr>
<tr>
<td>11.8112</td>
<td>Theory of Architecture A2</td>
<td>2</td>
</tr>
<tr>
<td>11.8211</td>
<td>Construction A1</td>
<td>2</td>
</tr>
<tr>
<td>11.8212</td>
<td>Construction A2</td>
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<td>11.8411</td>
<td>Acoustics A1</td>
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<tr>
<td>11.8412</td>
<td>Computer-aided Design A2</td>
<td>2</td>
</tr>
<tr>
<td>11.8431</td>
<td>Lighting Design A1</td>
<td>2</td>
</tr>
<tr>
<td>11.8432</td>
<td>Lighting Design A2</td>
<td>2</td>
</tr>
<tr>
<td>11.8511</td>
<td>Historical Research A1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Both parts must be taken</td>
<td></td>
</tr>
<tr>
<td>11.8512</td>
<td>Historical Research A2</td>
<td>2</td>
</tr>
<tr>
<td>11.8711</td>
<td>Landscape Design A1</td>
<td>2</td>
</tr>
<tr>
<td>11.8712</td>
<td>Landscape Design A2</td>
<td>2</td>
</tr>
<tr>
<td>36.412</td>
<td>Town Planning A</td>
<td>2</td>
</tr>
</tbody>
</table>

Any other undergraduate or Master of Science preparatory year subject offered within the Faculty of Architecture, subject to the approval of the Head of the School of Architecture and the agreement of the professor responsible for the subject.

(b) Any Arts or Commerce subjects consistent with the rules for enrolment of the Faculty concerned.

(c) Any Humanities subjects consistent with the rules for enrolment of the Department of General Studies.

Third year electives to a total minimum weekly time of five hours to be freely selected from the following:

(d) Any subjects under (a), (b) or (c) above.

† The subject of the thesis will be submitted by the student for the approval of the Head of the School at the beginning of second year and submitted for examination towards the end of the third year. Staff supervision will be available for one hour per week.
DEGREE COURSE IN LANDSCAPE ARCHITECTURE
—BLArch

This course offers training to professional level in a discipline which is emerging as one of the principal contributors in the fields of land-use planning and environmental design. At present there are relatively few qualified landscape architects in Australia, consequently graduates will face the challenge and enjoy the opportunities associated with a rapidly growing profession.

The course is designed to introduce students to landscape architecture through an understanding of the components and processes at work in primitive environments, and of the philosophies and techniques which have been developed by man in his continuous efforts to improve this environment. In the later years of the course emphasis is given to creative design work of a kind appropriate to Australian conditions. Programmes will be related to the subject matter of concurrent lectures, and will culminate in an examination of landscape problems of regional and national significance.

General Description of the Course

The course is of four years’ duration and requires full-time attendance of approximately 24 hours per week in each year.

The majority of subjects are specific, however contact with the students of other Schools within the Faculty and of other Faculties within the University is assured by the inclusion of subjects from the Schools of Architecture, Botany, Geography and Town Planning, and the Department of General Studies.
Practical Experience

Students are required to obtain a minimum of six months’ approved practical experience during their Undergraduate training. Employment may be obtained with a landscape architect, a landscape contractor or a nurseryman, but in every case the details of proposed employment must be submitted to the Head of the School for approval.

Professional Recognition

It is anticipated that graduates holding the BLArch degree will qualify for corporate membership of the Australian Institute of Landscape Architects after a specified period of postgraduate experience.

338. BACHELOR OF LANDSCAPE ARCHITECTURE

COURSE

Bachelor of Landscape Architecture

<table>
<thead>
<tr>
<th>YEAR 1†</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Session 1</td>
</tr>
<tr>
<td>11.111</td>
<td>Design I</td>
</tr>
<tr>
<td>11.121</td>
<td>History of Architecture I</td>
</tr>
<tr>
<td>11.131</td>
<td>Graphic Communication I</td>
</tr>
<tr>
<td>11.221</td>
<td>Structures I</td>
</tr>
<tr>
<td>11.511</td>
<td>Landscape Design 1**</td>
</tr>
<tr>
<td>11.521</td>
<td>Landscape Construction 1**</td>
</tr>
<tr>
<td>11.531</td>
<td>Landscape Pre-History</td>
</tr>
<tr>
<td>17.011</td>
<td>Biology of Mankind</td>
</tr>
<tr>
<td>43.212</td>
<td>Botany*</td>
</tr>
<tr>
<td></td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>24</td>
</tr>
</tbody>
</table>

†First year students may be required to participate in a practical construction programme outside the metropolitan area, involving a field exercise of approximately two weeks’ duration.

*Will include some field work.

**The courses in Landscape Design and Construction comprise a number of lectures and field trips for the purpose of practical observation. Field trips occur on alternate weeks, and range from local trips within the metropolitan area to points as far afield as Moss Vale, Glenbrook and Gosford. The Faculty provides transport wherever possible, but in the majority of cases, students are expected to make their own transport arrangements for these trips.
### YEAR 2

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphic Communication II</td>
<td>6</td>
</tr>
<tr>
<td>Landscape Design II</td>
<td>7</td>
</tr>
<tr>
<td>Landscape Construction II</td>
<td>3</td>
</tr>
<tr>
<td>History of Landscape Architecture</td>
<td>1</td>
</tr>
<tr>
<td>Theory of Landscape Architecture</td>
<td>2</td>
</tr>
<tr>
<td>General Ecology</td>
<td>3</td>
</tr>
<tr>
<td>Physical Geography for Land Assessment</td>
<td>4</td>
</tr>
<tr>
<td>General Studies Elective</td>
<td>1½</td>
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### YEAR 3

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>Landscape Design III</td>
<td>10</td>
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<tr>
<td>Landscape Construction III</td>
<td>3</td>
</tr>
<tr>
<td>Plants and Planting Methods</td>
<td>3</td>
</tr>
<tr>
<td>Landscape Specifications and Estimates</td>
<td>2</td>
</tr>
<tr>
<td>Public Recreation Planning</td>
<td>2</td>
</tr>
<tr>
<td>Environmental Impact Studies</td>
<td>2</td>
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<tr>
<td>Two General Studies Electives</td>
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### YEAR 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>Landscape Design IV</td>
<td>15</td>
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<tr>
<td>Landscape Professional Practice</td>
<td>2</td>
</tr>
<tr>
<td>Landscape Conservation and Rehabilitation</td>
<td>2</td>
</tr>
<tr>
<td>Landscape Thesis</td>
<td>1</td>
</tr>
<tr>
<td>Town Planning</td>
<td>2</td>
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<tr>
<td>Advanced General Studies Elective</td>
<td>1½</td>
</tr>
<tr>
<td></td>
<td>23½</td>
</tr>
</tbody>
</table>

Total Credits: 24½

Total Elective Credits: 10

Total General Study Elective Credits: 5
The course in Building provides a basic training for management and executive careers in the building industry. It aims to develop in the student a sound conception of the related requirements and functions of the building-owner, the architect, the numerous building consultants, the materials manufacturer and the builder in the process of planning, management, detailing, erection and fabrication of buildings.

The course places emphasis on subjects dealing with law, management, construction, accounting and applied building economics. The course has relevance to a wide variety of careers in the management and supervision of building enterprises, building materials production and many other activities in building technology, administration and research—both in private and public employment.

General Description of the Course

The normal full-time course leads to the degree of Bachelor of Building (BBuild), and covers four years, three years being full-time attendance and the fourth year part-time.

The Building degree course also provides University training in Quantity Surveying.

The Part-time Programme

There is only one course in Building in respect of subjects, content, examinations and standards which, to meet the varying needs of students, may be taken on an attendance timetable which is largely full-time or wholly or largely part-time. The part-time programme could require up to three half-days' or equivalent attendance per week during the day with the balance of the attendance in the evenings.

The subjects of two part-time stages are equivalent in all ways to one full-time year. At the end of the first and second years or the second and fourth part-time stages a student may elect to transfer to a different attendance programme. Students desiring to change course pattern are required to give notice in writing of their intention not later than 30th September.
Practical Experience

Students are required to be in approved employment related to their course during the whole of the part-time period of their programme. The type of employment proposed must be submitted to the Professor of Building for approval.

Honours

In the Bachelor of Building degree Honours are awarded on the basis of quality of performance with particular emphasis on the later years and in accordance with current Faculty regulations.

Professional Recognition

The award of the degree, Bachelor of Building, is recognized for admission to membership by the Australian Institute of Building and the Australian Institute of Quantity Surveying.

Course Structure

The course detailed below is being implemented progressively, that is, year 1 in 1972, year 2 in 1973 etc. Students enrolled in the “old” course will be required to complete their course in the number of years/stages remaining in their course by 1975, plus one year.

Details of the “old” course may be found in the 1971 Calendar.
# 333. BUILDING DEGREE COURSE

Bachelor of Building

<table>
<thead>
<tr>
<th>Hours per week for 2 sessions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FULL-TIME PROGRAMME</strong></td>
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<td>Stage 1</td>
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**YEAR 1**

<table>
<thead>
<tr>
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<th>Full-time</th>
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<tr>
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<td>History of Architecture I</td>
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<td>14.001</td>
<td>Introduction to Accounting</td>
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<td>35.0011</td>
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<td>0</td>
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<td>35.0012</td>
<td>Building Construction IB</td>
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<td>35.011</td>
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<td>35.171</td>
<td>Building Management I</td>
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<td>35.391</td>
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| Total | 27⅓   | 13     | 13⅓     |

First year students may be required to participate in a practical construction programme outside the metropolitan area, involving a field exercise of approximately two weeks’ duration.

**YEAR 2**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Description</th>
<th>Stage 3</th>
<th>Stage 4</th>
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<tr>
<td>14.012</td>
<td>Accounting for Builders</td>
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<td>35.032</td>
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<td>35.0321</td>
<td>Building Construction IIA</td>
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<td>35.0322</td>
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<td>35.042</td>
<td>Building Science II</td>
<td>4</td>
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<td>35.132</td>
<td>Quantity Surveying I (Measurement)</td>
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<td>35.152</td>
<td>Estimating I</td>
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<td>35.182</td>
<td>Building Management II</td>
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</tr>
<tr>
<td>35.202</td>
<td>Soil Mechanics for Building</td>
<td>1⅓</td>
<td>0</td>
</tr>
<tr>
<td>35.392</td>
<td>Building Structures II</td>
<td>3⅓</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>General Studies Elective</td>
<td>1⅔</td>
<td>0</td>
</tr>
</tbody>
</table>

| Total | 27⅓   | 13⅓    | 14      |

In Session 2 the subject Building Construction II includes 29.411, Surveying for Architects and Builders, which comprises a weekly lecture of one hour and seven practical lessons of three hours.
<table>
<thead>
<tr>
<th>Year 3</th>
<th>Full-Time Programme</th>
<th>Part-Time Programme</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stage 5</td>
<td>Stage 6</td>
</tr>
<tr>
<td>Law for Builders I</td>
<td>2</td>
<td>0</td>
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<tr>
<td>Introduction to Business Finance</td>
<td>2</td>
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<tr>
<td>Building Construction III</td>
<td>9½</td>
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<tr>
<td>Building Construction IIIA</td>
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<td>4½</td>
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<tr>
<td>Building Construction IIIB</td>
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<tr>
<td>Building Science III</td>
<td>3</td>
<td>3</td>
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<tr>
<td>Quantity Surveying II (Billing)</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Estimating II</td>
<td>2</td>
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<tr>
<td>Building Management III</td>
<td>2</td>
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<tr>
<td>Building Structures III</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>General Studies Elective</td>
<td>1½</td>
<td>1½</td>
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<tr>
<td>Total</td>
<td>27</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4—Part-Time Programme Only</th>
<th>Session 1</th>
<th>Session 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Law for Builders II</td>
<td>2</td>
<td>0</td>
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<tr>
<td>Building Construction IV</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Building Management IV</td>
<td>1</td>
<td>2</td>
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<tr>
<td>Quantity Surveying III (Cost Planning)</td>
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<tr>
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<td>Building Specifications</td>
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<tr>
<td>Building Design</td>
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<td>2</td>
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<tr>
<td>Town Planning</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>General Studies Elective</td>
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<td>1½</td>
</tr>
<tr>
<td>Total</td>
<td>13</td>
<td>14</td>
</tr>
</tbody>
</table>
SCHOOL OF TOWN PLANNING

DEGREE COURSE IN TOWN PLANNING—BTP

The basic objective of the course is to train the "general practitioner" in town planning, that is, a graduate who is well equipped to play a significant role in the work of government and local government planning agencies.

The course places emphasis on the several steps in the planning process, from decision making through civic survey, plan preparation, plan approval, to plan implementation and review. As planning is concerned with the creation of a better urban environment, as well as with policies for determining the best use of land at national, regional and local levels, students are also trained in aesthetic and civic design principles. Further attention is given to planning methodology and urban research techniques.

General Description of the Course

The course is of five years' duration and requires full-time attendance throughout First, Second and Fifth Years. Students are required to attend the University on a full-time basis for the first session of Third Year and for the second session of Fourth Year, the intervening period being devoted to practical experience as approved by the Head of the School.

The course leads to the degree of Bachelor of Town Planning (BTP).

Practical Experience

For the period covered by Session 2 of Year 3 and Session 1 of Year 4 the students must be engaged in approved employment related to the course; for example, in government planning and housing authorities, in municipal and shire councils preparing or implementing town and country planning schemes, in private development companies or with planning consultants. The type of employment proposed must be submitted to the Professor of Town Planning for approval.

Honours

Honours are awarded in the Bachelor of Town Planning degree, on the basis of quality of performance throughout the whole course, with particular emphasis on the later years and in accordance with current Faculty regulations.
Professional Recognition

The course is recognized by the Royal Australian Planning Institute as an academic qualification for corporate membership. The Institute requires that for corporate membership graduates must also have at least one year of practical experience subsequent to graduation.

336. TOWN PLANNING DEGREE COURSE

Bachelor of Town Planning

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SESSION 1</td>
</tr>
<tr>
<td>11.111</td>
<td>Design I</td>
</tr>
<tr>
<td>11.121</td>
<td>History of Architecture I</td>
</tr>
<tr>
<td>11.131</td>
<td>Graphic Communication I</td>
</tr>
<tr>
<td>11.211</td>
<td>Construction I</td>
</tr>
<tr>
<td>36.431</td>
<td>Town Planning Theory and Practice I</td>
</tr>
<tr>
<td>36.271</td>
<td>Environmental Science</td>
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<td></td>
<td>General Studies Elective</td>
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<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

First year students may be required to participate in a practical construction programme outside the metropolitan area, involving a field exercise of approximately two weeks' duration.

<table>
<thead>
<tr>
<th>YEAR 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>11.132</td>
<td>Graphic Communication II</td>
</tr>
<tr>
<td>36.432</td>
<td>Town Planning Theory and Practice II</td>
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<tr>
<td>36.441</td>
<td>Design II for Town Planners</td>
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<tr>
<td>36.451</td>
<td>History of Town Planning</td>
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<tr>
<td>36.461</td>
<td>Civic Engineering</td>
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<tr>
<td>27.293</td>
<td>Physical Geography for Land Assessment</td>
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<td></td>
<td>Two General Studies Electives</td>
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<td></td>
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</table>
### YEAR 3—PART-TIME PROGRAMME

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.521</td>
<td>Statistical Methods and Data Processing</td>
<td>4  *</td>
</tr>
<tr>
<td>29.431</td>
<td>Surveying and Cartography</td>
<td>4  *</td>
</tr>
<tr>
<td>36.433</td>
<td>Town Planning Theory and Practice III</td>
<td>8  *</td>
</tr>
<tr>
<td>36.471</td>
<td>Planning Law and Administration</td>
<td>4  *</td>
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**Total:** 20

### YEAR 4—PART-TIME PROGRAMME

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
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</thead>
<tbody>
<tr>
<td>36.434</td>
<td>Town Planning Theory and Practice IV</td>
<td>12 *</td>
</tr>
<tr>
<td>36.436</td>
<td>Urban Geography</td>
<td>3  *</td>
</tr>
<tr>
<td>53.321</td>
<td>Urban Sociology</td>
<td>2  *</td>
</tr>
<tr>
<td>54.113</td>
<td>Political Science IIIA (Option 3)</td>
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**Total:** 20

### YEAR 5

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
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</thead>
<tbody>
<tr>
<td>8.012F</td>
<td>Transportation Engineering</td>
<td>2  2</td>
</tr>
<tr>
<td>36.435</td>
<td>Town Planning Theory and Practice V</td>
<td>12 12</td>
</tr>
<tr>
<td>36.437</td>
<td>Civic Survey Camp</td>
<td></td>
</tr>
<tr>
<td>36.442</td>
<td>Civic and Landscape Design</td>
<td>4  4</td>
</tr>
<tr>
<td>36.481</td>
<td>Land Valuation and Economics</td>
<td>2  2</td>
</tr>
<tr>
<td>36.491</td>
<td>Thesis</td>
<td>1  1</td>
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<tr>
<td></td>
<td>Advanced General Studies Elective</td>
<td>1½ 1½</td>
</tr>
</tbody>
</table>

**Total:** 22½ 22½

*Practical experience as approved by the Head of the School.

### EXTENSION COURSES

The Schools within the Faculty from time to time conduct extension courses in specialist fields of study related to architecture, building and town planning. These courses are normally open to qualified members of the various land-use professions, upon payment of a fee appropriate to the length of the particular course.
POSTGRADUATE STUDY

HIGHER DEGREES—RESEARCH

Following the award of a first degree in Architecture, Building, Landscape Architecture or Town Planning of the University of New South Wales or other approved university, graduates may apply to register for the degree of Master of Architecture, Master of Building, Master of Landscape Architecture or Master of Town Planning. Facilities are also available for research towards the degree of Doctor of Philosophy. For details concerning this degree consult the Calendar or write to the Dean.

Summary of the Conditions for the Award of a Master’s Degree

(1) Every candidate for the degree shall be required to carry out a programme of advanced study, to take such examinations, and to perform such other work as may be prescribed by the Faculty. The programme shall include the preparation and submission of a thesis embodying the results of an original investigation or design relative to architecture, building, landscape architecture or town planning. The candidate may also submit any work published, whether or not such work is related to the thesis.

(2) No candidate shall be considered for the award of the degree until the lapse of four complete sessions from the date from which the registration becomes effective, save that in the case of a 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.

(3) For each candidate there shall be two examiners appointed by the Professorial Board, one of whom shall, if possible, be an external examiner.

(4) Every candidate shall submit three copies of the thesis as specified in the University Calendar, and it shall be understood that the University retains three copies of the thesis 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 micro-film or other copying medium.
Admission

An application to register as a candidate for the degree of Master of Architecture, Master of Building, Master of Landscape Architecture or Master of Town Planning 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. The following specific conditions will apply:

Master of Architecture: An applicant for registration for the degree of Master of Architecture shall have been admitted to the Degree of Bachelor of Architecture in the University of New South Wales or in another approved University.

Master of Building: An applicant for registration for the Degree of Master of Building shall have been admitted to the Degree of Bachelor of Building in the University of New South Wales or in another approved University.

Master of Landscape Architecture: An applicant for registration for the degree of Master of Landscape Architecture shall have been admitted to the degree of Bachelor in the University of New South Wales or in another approved University, in an appropriate field.

Master of Town Planning: An applicant for registration for the Degree of Master of Town Planning shall have been admitted to the degree of Bachelor of Town Planning in the University of New South Wales or to a Bachelor Degree in Town or Regional Planning in another approved University.

POSTGRADUATE COURSES

In addition to the facilities available for the pursuit of higher degrees by research, formal courses are offered as follows:

(1) Master of Science (Acoustics)
(2) Master of Science (Building)
(3) Graduate Diploma in Housing and Neighbourhood Planning
(4) Graduate Diploma in Landscape Design.

Duration

Each course is programmed over two years of part-time study in the University, involving attendance on two or three evenings per week. In the case of Housing and Neighbourhood Planning a one-year full-time programme may be offered subject to demand.
This course provides for postgraduate study in several important aspects of acoustics, e.g. noise control in buildings, community noise control, auditorium design, machine, ventilation and air conditioning noise control and acoustical systems and structures. It is designed for graduates in architecture, engineering or science who wish to specialize in acoustics, and is suitable for those who wish to practise as consultants or to find employment in industry, research establishments or in larger architectural and engineering offices.

Admission Requirements

General conditions governing registration as a candidate for the degree of Master of Science (Acoustics) are given in the University Calendar, but the attention of intending applicants is directed to the following specific requirements.

(1) An applicant for registration for the Degree of MSc (Acoustics) shall have been admitted to the Degree of Bachelor of Architecture, Bachelor of Building or Bachelor of Engineering in the University of New South Wales or an equivalent Degree in another approved university.

(2) An applicant who has been admitted to the Degree of BSc(Architecture) or Bachelor of Science in the University of New South Wales or an equivalent Degree in another approved university will be admitted after the satisfactory completion of one preparatory year.

Course Structure

The course has a duration of four sessions of part-time study. A credit point system has been adopted, one credit point being awarded for each hour/week timetabled. Session 1 provides 7 credit points and Session 2, 9 credit points. Each student must obtain 16 credit points before being permitted to enrol in Year 2. Year 2 consists of a compulsory Graduate Project (6 credit points total) and electives (4 credit points each). Each student must complete at least 3 electives. Thus the minimum number of credit points for the award of the degree is (16+6+12) = 34. The
number of electives offered in any session will depend on student numbers and interests.

### PREPARATORY YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>SESSION 1</td>
<td>SESSION 2</td>
</tr>
<tr>
<td>*1.281G Vibration and Wave Theory I</td>
<td>3</td>
</tr>
<tr>
<td>*1.287G Vibration and Wave Theory II</td>
<td>0</td>
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<tr>
<td>†11.990G Construction, Contracts and</td>
<td>3</td>
</tr>
<tr>
<td>Documentation I</td>
<td></td>
</tr>
<tr>
<td>†11.991G Construction, Contracts and</td>
<td>0</td>
</tr>
<tr>
<td>Documentation II</td>
<td></td>
</tr>
<tr>
<td>*‡35.360G Computer Techniques</td>
<td>3</td>
</tr>
<tr>
<td>*‡35.370G Experimental Techniques</td>
<td>0</td>
</tr>
</tbody>
</table>

*Candidates holding the degree of BSc (Architecture) will be required to complete these subjects.

†Candidates from science faculties will be required to complete these subjects unless they have already studied similar topics in their first degree course.

### YEAR 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.282G Acoustic Theory</td>
<td>2</td>
</tr>
<tr>
<td>1.283G Acoustic Measuring Systems</td>
<td>1</td>
</tr>
<tr>
<td>1.284G Electro-acoustics</td>
<td>0</td>
</tr>
<tr>
<td>1.286G Acoustic Laboratory</td>
<td>0</td>
</tr>
<tr>
<td>11.561G Mechanical Noise Sources</td>
<td>2</td>
</tr>
<tr>
<td>11.992G Acoustics of Speech and Music</td>
<td>1</td>
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<tr>
<td>11.993G The Ear and Hearing</td>
<td>1</td>
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<tr>
<td>11.994G Hearing Conservation</td>
<td>0</td>
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<td>11.995G Community Noise</td>
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### YEAR 2*

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours per week</th>
</tr>
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<tbody>
<tr>
<td>11.996G Graduate Project (equivalent hours)</td>
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</tr>
<tr>
<td>Electives†</td>
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<tr>
<td>1.285G Acoustical Systems and Structures</td>
<td>4</td>
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<tr>
<td>5.652G Noise Suppression Techniques</td>
<td>4</td>
</tr>
<tr>
<td>11.997G Auditorium Acoustics</td>
<td>4</td>
</tr>
<tr>
<td>11.998G Airborne and Impact Noise Control in Buildings</td>
<td>0</td>
</tr>
<tr>
<td>11.999G Advanced Acoustics of Speech and Music</td>
<td>0</td>
</tr>
</tbody>
</table>

*In addition to formal course work, there will be occasional field excursions.

†The electives offered in any session will depend on circumstances.
521. GRADUATE DIPLOMA IN LANDSCAPE DESIGN  
GradDip

This course has been designed to extend the knowledge of architects to embrace an important environmental study closely associated with that of their own profession. It is a discipline which has so far received little attention in this country, yet may be expected to play a significant part in the future shaping of our environment.

Admission Requirements
An applicant for admission to the Landscape Design course shall be—
(i) a graduate in Architecture of the University of New South Wales; or
(ii) a person with such other qualifications as may be approved by Faculty.

Course Structure

<table>
<thead>
<tr>
<th>YEAR 1—PART-TIME</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SESSION 1</td>
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<tr>
<td>11.910G History of Landscape Design</td>
<td>1</td>
</tr>
<tr>
<td>11.912G Landscape Engineering</td>
<td>2</td>
</tr>
<tr>
<td>27.293 Physical Geography for Land Assessment</td>
<td>0</td>
</tr>
<tr>
<td>43.211G Botany and Ecology*</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
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</table>

<table>
<thead>
<tr>
<th>YEAR 2</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SESSION 1</td>
</tr>
<tr>
<td>11.913G Theory and Practice of Landscape</td>
<td>1</td>
</tr>
<tr>
<td>11.914G Forestry and Horticulture*</td>
<td>2</td>
</tr>
<tr>
<td>11.915G Landscape Design</td>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

*Practical work will include a number of Saturday excursions.
SCHOOL OF BUILDING

221. MASTER OF SCIENCE (BUILDING)
MSc(Building)

This two year, part-time course has been designed to provide opportunities for advanced study in the science of construction. It allows a certain amount of specialization in three inter-related areas:

(a) planning and management aspects of a design or construction organization, including programming, evaluation, costing, performance feedback, feasibility, and the valuation and management of properties;

(b) operations and control aspects of a design or construction organization, concentrating on estimating and cost analysis, contract or design administration and construction techniques; and

(c) development and research aspects of construction with relevance to design, construction, product manufacture or research.

The course aims at attracting the practising qualified architect or builder who wishes to widen his knowledge and understanding of construction planning, operation and development.

Admission Requirements

The general conditions governing registration as a candidate for the degree of Master of Science (Building) are given earlier, but the attention of intending applicants is directed to the following specific requirement:

(1) An applicant for registration for the Degree of MSc (Building) shall have been admitted to the Degree of Bachelor of Architecture or Bachelor of Building in the University of New South Wales or in another approved university.

(2) An applicant who has been admitted to the degree of BSc(Architecture) in the University of New South Wales or an equivalent degree in another approved university will be admitted after the satisfactory completion of one preparatory year.
**Course Structure**

The course is based on a credit points system: every lecture hour per week per session has a one credit point rating. All the subjects in Sessions 1 and 2 and the graduate project in Sessions 3 and 4 are compulsory components of the course, completion of which requires a total of 30 credit points.

<table>
<thead>
<tr>
<th>Hours per week for two sessions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PREPARATORY YEAR</strong></td>
</tr>
<tr>
<td>14.001 Introduction to Accounting</td>
</tr>
<tr>
<td>14.051 Law for Builders I</td>
</tr>
<tr>
<td>14.052 Law for Builders II</td>
</tr>
<tr>
<td>35.053 I Building Construction IIIA (Part only)</td>
</tr>
<tr>
<td>35.182 Building Management II</td>
</tr>
<tr>
<td>35.193 Building Management III (Part only)</td>
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</table>

<table>
<thead>
<tr>
<th><strong>YEAR 1</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>35.210G Building Contracts and Documentation</td>
</tr>
<tr>
<td>35.220G Building Economics and Property Valuation</td>
</tr>
<tr>
<td>35.230G Operations Planning I</td>
</tr>
<tr>
<td>35.240G Graduate Project</td>
</tr>
<tr>
<td>35.360G Computer Techniques</td>
</tr>
<tr>
<td>35.370G Experimental Techniques</td>
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</tbody>
</table>

Credit points

<table>
<thead>
<tr>
<th><strong>YEAR 2</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>35.240G Graduate Project</td>
</tr>
</tbody>
</table>

In addition, 12 credit points accrue from a selection of the following subjects, grouped according to the specializations described above.

<table>
<thead>
<tr>
<th>Hours per week for one session</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GROUP (a)</strong></td>
</tr>
<tr>
<td>35.250G Office and Personnel Management</td>
</tr>
<tr>
<td>35.260G Architectural Programming</td>
</tr>
<tr>
<td>35.270G Estate Management</td>
</tr>
<tr>
<td>35.280G History of Building</td>
</tr>
</tbody>
</table>
Group (b)

- **35.290G** Advanced Construction I ........................................ 4
- **35.300G** Advanced Construction II ........................................... 4
- **35.310G** Advanced Equipment and Services .................................. 2

Group (c)

- **35.320G** Operations Planning II .............................................. 4
- **35.330G** Cost Planning and Analysis ........................................... 2
- **35.340G** Computer Applications I ............................................ 2
- **35.350G** Computer Applications II ............................................ 2

The grouping is arbitrary, and the student is allowed to select subjects from any one of the three groups if they are available. Availability depends on the number of enrolments and on the numbers of students wishing to specialize in each of the groups. While the intention is to offer as many electives as possible, students should realize that the full range may not be offered in any one year.
SCHOOL OF TOWN PLANNING

The School offers a postgraduate course leading to the award of a Graduate Diploma in Housing and Neighbourhood Planning (GradDip). This course is normally conducted over two years part-time, but may be offered over one year full-time, depending upon demand.

520. HOUSING AND NEIGHBOURHOOD PLANNING
GRADUATE DIPLOMA COURSE
GradDip

This course provides for postgraduate study in the design and layout of residential areas. It is concerned with the study of the physical structure and form of new and old residential neighbourhoods; and of the elements of the neighbourhood including dwellings, open spaces, shopping and community centres. In addition to design considerations, specific study will be made of social and economic factors in the provision of public and private housing.

Admission Requirements

A candidate shall be—

(i) a graduate in Architecture of the University of New South Wales; or

(ii) a person with such other qualifications as may be approved by Faculty.

<table>
<thead>
<tr>
<th>Hours per week</th>
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<td>YEAR 1—PART-TIME</td>
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<td>36.920G Theory of Neighbourhood Planning</td>
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<tr>
<td>36.921G Practice of Neighbourhood Planning</td>
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<td>36.923G Land and Housing Economics</td>
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<td>36.924G Urban Sociology</td>
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### YEAR 2

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</tbody>
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**Enquiries**

Initial enquiries regarding postgraduate courses should be addressed to:

The Dean,
Faculty of Architecture,
University of New South Wales,
P.O. Box 1,
Kensington,
New South Wales, Australia 2033.
DESCRIPTIONS OF SUBJECTS

The following brief synopses are intended to outline the scope of individual subjects. The subjects are grouped under the School responsible for them, and are further subdivided, when appropriate, under classifications of Design, Construction, Structures, etc. Postgraduate subject descriptions follow the Undergraduate synopses in each case.

Subject synopses are followed by lists of recommended text and principal reference books. In cases where no list appears students will be informed of their requirements at the beginning of the year.

The Board of Studies in General Education has published a handbook in which details concerning the general studies subjects may be found. The handbook also contains information regarding general studies text and principal reference books, and is available free of charge.

UNDERGRADUATE SUBJECTS

SCHOOL OF CIVIL ENGINEERING

8.017 Transportation Engineering

History, development and characteristics of models of transport. Fundamentals and evaluation of transport systems—performance and output. Interaction between land use and traffic demand.

SCHOOL OF ARCHITECTURE

DESIGN

The design and construction of building and environment, including the solution of functional problems, study and application of specialized building techniques, engineering services and equipment; documentation; estimating and building job organization. In all years theoretical aspects are covered in lectures and applied by the student in studio work. The first three years give a basic understanding primarily in the functional and practical aspects of architecture; the last two years involve the student additionally in aesthetic and philosophic values.

11.111 Design I

(In studio work of other subjects the principles of two- and three-dimensional composition are introduced and exercises are given beginning with the simple elements including building elements and simple spaces with simple functions.)

TEXTBOOK

PRINCIPAL REFERENCE BOOKS
Gauldie, S. *Architecture (The Appreciation of the Arts, Vol. 1).* Oxford U.P.

11.112  Design II

Introduction to the design process. Design for needs of individuals and small groups based on physical factors of health, comfort, safety and convenience. Emphasis on internal environment.

Inter-relation of people within small groups. Relationship between internal and external spaces. Design of small and simple multi-cell buildings. Influence of climate, structure and materials on architecture.

PRINCIPAL REFERENCE BOOKS
Hall, E. T. *The Hidden Dimension*. Bodley Head.

11.113  Design III

Design process and its application in larger and more complex architectural problems. Larger groups of people and adequate provision for their needs. Design of buildings becoming more complex in function, form and structure. Related buildings with simple functions and massing, and control of external spaces. Design for comfort and efficiency under diverse conditions. Design of buildings with special requirements of structure, material and/or equipment.

PRINCIPAL REFERENCE BOOKS
Rapoport, A. *House Form and Culture*. Prentice-Hall.

11.151  Architecture A

Discussion and application in the studios. The study of various theories and philosophies of architecture with the emphasis on aesthetics. The aims
and responsibilities of the architect. Study of spatial relationships. Group
building design and equipment of interior and exterior spaces. Landscaping.
The development of the concept of the totality of architecture and an
awareness of the inter-relation of the multiplicity of factors and influences
which determine the final result. Problems in design within the concept of
total architecture, involving the creation and control of the human environ-
ment, its construction and implementation in all aspects.

11.152 Architecture B

The development of a personal philosophy of architecture with the em-
phasis on mental and spiritual needs. The continuation at a more detailed
and complex level of the concept of “total architecture”. Problems involv-
ing the mental and spiritual needs of the individual and the society. Ad-
vanced planning involving urban environmental design and the associated
questions of economics and services.

11.511 Landscape Design I

A series of lecture-cum-discussion periods introducing the concept of
landscape as a continuous but variable matrix surrounding and permeating
the built environment. The series will include an examination of the charac-
teristics we tend to associate with different exterior spaces—civic squares,
markets, residential precincts, farmlands and wilderness, and will explore
the extent to which “hard” and “soft” landscaping contribute to these
characteristics. As part of the subject, students will undertake practical
assignments in observation and environmental appreciation.

PRINCIPAL REFERENCE BOOKS

Lynch, K. *Site Planning*, M.I.T. Press.

11.512 Landscape Design II

Simple design exercises chosen to exploit knowledge and understanding
gained by students during their First Year studies. The majority will call
for an individual solution, however group work will be introduced in some
of the Session II projects. Exercises will embrace elementary site analysis,
ground modelling, and disposition of buildings, roads, carparks and paths
with respect to a limited range of factors. Throughout these and subse-
quent design classes projects will call for an increasingly detailed know-
ledge of plants and their uses. To this end students will be required to
maintain and submit illustrated field books.

11.513 Landscape Design III

More advanced exercises wherein students will find it necessary to under-
take considerable research and make value judgments based upon an ex-
tensive range of factors. Projects may include the design of regional parks,
and open-space systems, nature reserves, camping and caravan parks, golf
courses and sports fields, highways, housing estates, shopping malls and
civic squares. A number of the exercises will call for group work. Several
will be directed towards the solution of real design briefs.
11.514 Landscape Design IV

In 11.514 Landscape Design IV, students will be called upon to employ all the knowledge, skill and understanding they have gained in previous years. Projects will be few in number, but will call for solutions of professional standard, supported by thorough documentation. Group work will predominate.

Projects will be representative of our major environmental problems, ranging from expressways to mineral extraction and from National Parks to solid and liquid waste disposal.

11.542 Theory of Landscape Architecture

A series of seminars exploring the philosophies behind different landscape movements. Examples will be studies in an attempt to establish valid principles of design relative to such things as proportion, scale, rhythm, colour and texture. Students will be required to take part in the discussions and contribute papers on selected topics.

11.8111 Theory of Architecture A1 (Elective)

The process of synthesis in architectural creation. Sources and inter-relation of form. Economy and priorities. Decision-theory. Problem models and the process of synthesis. Inter-relation between the whole and the part and between its formal characteristics and its physical manifestation.

11.8112 Theory of Architecture A2 (Elective)

The philosophical and spiritual intentions in architecture. Questions of and relationships between honesty and falsehood in architecture; legitimate and false styles; the original and the copy; architectural ethics. Philosophy of aesthetics, and the qualities of perfection, goodness, truth and beauty as reflected in great architecture.

11.8121 Theory of Architecture B1 (Elective)

Prerequisites: 11.8111 Theory of Architecture A1

11.8122 Theory of Architecture B2 (Elective)

Prerequisites: 11.8111 Theory of Architecture A1

The sacred and architecture. Sacred geometry and the elements of sacred architecture in a general sense. Introduction to symbolism in architecture according to Christian, Moslem, Hindu and Buddhist doctrines. The expression of the sacrificial idea in the primitive house, the altar, the tent, the temple, the cathedral. Sacred architecture.
11.8711 Landscape Design A1 (Elective)

Physiography and Soils. An examination of landscape forms with reference to their origin and progressive modification through natural forces. The origin, classification and distribution of soils. Erosion and soil stabilization techniques with particular reference to the Australian continent.

11.8712 Landscape Design A2 (Elective)


11.8721 Landscape Design B1 (Elective)

Urban Landscaping. A series of lectures concerned with analysis, design and techniques of the man-modified environment. The treatment of spaces between buildings: their design, purpose, function and maintenance will be investigated, together with construction techniques and costing. Linkages with the total environment and open space concepts will be studied.

PRINCIPAL REFERENCE BOOKS

11.8722 Landscape Design B2 (Elective)

Landscape Planning. Current techniques and recent case studies of land use planning based upon an analysis of natural phenomena and features. Examples studied may include national park and recreational park policies and issues concerning agricultural lands, extractive industries and conservation.

PRINCIPAL REFERENCE BOOKS
11.121 History of Architecture I

A broad and general treatment of the history of architecture from the earliest times to the present day.

(a) Introduction. A framework of reference for architectural history:
   (i) Architecture as the "built environment"—a partnership of man and nature.
   (ii) The human and environmental influences that affect architecture throughout history.

(b) A general chronological survey: part (i)—Primitive and communal architecture; the ancient world; the classic world of Greece and Rome; the Dark Ages; Medieval architecture; Renaissance architecture.

(c) A general chronological survey: part (ii)—Baroque and Rococo architecture; Rationalism, Romanticism and the Industrial Revolution; the twentieth century.

PRINCIPAL REFERENCE BOOKS


11.122 History of Architecture II

A more detailed treatment of some aspects of history of architecture and their relevance today.

(a) A brief history of planning as a response to human needs and its expression as architectural space.

(b) A study of some important structural, constructional, technological and organizational innovations and their influences, particularly in the Middle Ages, nineteenth and twentieth centuries.

(c) An outline of the evolution of form, proportion and detail, and other related visual aspects of architecture, particularly in Classic, Renaissance and twentieth century architecture.

PRINCIPAL REFERENCE BOOKS

Mumford, I. The City in History. Secker & Warburg.
Pannell, J. P. M. An Illustrated History of Civil Engineering. Thames & Hudson.
Pevsner, N. The Sources of Modern Architecture and Design. Thames & Hudson.
11.123 History of Architecture III
A history of architecture in Australia, in which the general studies of first and second years find more particular application.
(a) The historical, human and environmental context of Australian architecture.
(b) Architecture from the foundation of the colony to the end of World War I.
(c) Architecture since World War I.

TEXTBOOKS HISTORY OF ARCHITECTURE I, II, and III
(for History of Architecture III only)—

PRINCIPAL REFERENCE BOOKS
Herman, M. *The Early Australian Architects and Their Work*. A. & R.
Oldham, J. and R. *Western Heritage*. Paterson, Brokensha.
Sharland, M. *Stones of a Century*. Oldham, Beddome & Meredith.

11.531 Landscape Pre-History
The history of landscape evolution with particular reference to the Australian Continent. Primitive man and the world in which he lived. Early settlement patterns in Europe and the effects of agriculture.

11.532 History of Landscape Architecture
Gardens as a reflection of their times and an expression of man's attitude toward nature. Royal parks and gardens of Ancient Egypt and Babylonia. The development of aesthetic sensitivity leading up to the "paradise" gardens of Persia, Sacred Groves of Greece and the Villa Urbana of Imperial Rome. Medieval, Moorish and Renaissance gardens, culminating in the immense landscape of Versailles.
The English Landscape School and Picturesque movement. The classic revival.

Effects of the Industrial Revolution and scientific plant exploration—disappearance of large private estates and emergence of public parks.


11.8511 Historical Research A1
11.8512 Historical Research A2 (Electives)

A basic knowledge and training in research in the field of Australian architectural history. An appreciation of the purpose of the research, familiarization with sources of materials and the way in which these are best used: proper techniques in the recording and cataloguing of material together with its critical assessment and evaluation and its integration, interpretation and presentation. Application and practice in a small but thorough research project.

11.8521 Historical Research B1
11.8522 Historical Research B2 (Electives)

Prerequisites: 11.8511 Historical Research A1
11.8512 Historical Research A2

A development of Historical Research A in which the student's endeavours are directed towards the initiation and completion of an original research project in Australian architectural history.

GRAPHIC COMMUNICATION

The development of visual awareness and the practical skills basic to the observation, analysis and recording of appearance and to the construction of visualization and co-ordination drawings.

11.131 Graphic Communication I


11.1311 Graphic Communication IA
The syllabus of Graphic Communication I taken over two years.

11.1312 Graphic Communication IB

PRINCIPAL REFERENCE BOOKS
Brandt, R. *Watercolour Landscape*. Reinhold.
Harlan, C. *Vision and Invention*. Prentice-Hall.
Wittaker, F. *Wittaker on Watercolour*. Reinhold.

11.132 Graphic Communication II

*Graphic Structure.* Analysis and synthesis, in theory and in practice, of a communication process. Studies in the development of symbolic and literal systems of representation. Media studies include the more sophisticated contemporary range.

*Technical Drawing.* Extension and development from the Stage 1 series in the context of the Architectural design and construction programme.

*Visual Drawing.* Extension and development from the Stage 1 series in the construction of visualization and co-ordination drawings.

11.133 Graphic Communication III

Further extension of Graphic Communication II with special emphasis on analytical observation and the capacity to construct visualization and co-ordination drawings.

TEXTBOOKS—11.131, 11.132 and 11.133
Hollis, H. F. *Teach Yourself Perspective Drawing*. E.U.P.

CONSTRUCTION

The study of the fabric of buildings: the materials, elements, systems, procedures for erection and performance of the fabric determined by considerations of building functions, material properties, environment, climate and site: methods of communicating information. The order of study is from simple buildings for basic functions to buildings for multiple functions and complex procedures.

Theoretical lecture material reinforced by visits to factories and building works and applied and integrated with design in the studio and special projects.
11.211 Construction I


PRINCIPAL REFERENCE BOOKS

Australia, C.F.B.S. Notes on the Science of Building. Progressively revised and extended.


N.S.W.—Standard Minimum Requirements for Home Building. Issued jointly by government lending institutions and banks.


11.212 Construction II

Single and two-storey, multi-cell shelters: group activity shelter: sloping sites.


(b) Upper timber floors, stairs: retaining walls and membranes, semi-basements, concrete floors on the ground. Fuels and power supplies; thermal insulation: condensation: vapour barriers. Hot water supply; drainage and sanitary plumbing.


PRINCIPAL REFERENCE BOOKS


Boyne, D. A. Architects' working Details. Architectural Press.


11.213 Construction III

Buildings requiring structural frames: multiple activities.
(a) Framing systems and floors. Water and drainage services, fire protection and fire-fighting. Lifts and escalators.
(b) Roofs, claddings, internal provisions. Central conditioning plant. Light fittings. Integration of services.
(c) Basements, tanking, footings. Additions and alterations, adjustable and demountable structures. Procedures, economics. Communication systems.

11.2131 Construction IIIA

The same theoretical and lecture material, together with specific construction assignments as for Construction III.

11.2132 Construction IIIB

The construction assignments of Construction III taken in connection with Design III.

TEXTBOOKS—11.211, 11.212 and 11.213

PRINCIPAL REFERENCE BOOKS


Standards Association of Australia.


CA3 : Parts I, II, IV, V, VI and X. *SAA Lift Code*.


Warland, E. G. *The Technique of Building*. F.U.P.

**11.521 Landscape Construction I**

Basic construction methods and materials used in roofing, walling, paving and fencing with emphasis upon durability under exposed conditions. Surface and sub-surface drainage. Elementary surveying, plotting and interpretation of contours.

**PRINCIPAL REFERENCE BOOKS**


Lynch, K. *Site Planning*. M.I.T. Press.


**11.522 Landscape Construction II**


**11.523 Landscape Construction III**


**11.553 Plants and Planting Methods**


The subject will involve a number of visits to commercial plant nurseries.
11.8211 Construction A1 (Elective)

The study in depth of the principles of construction in relation to stability, loadings, safety and special applications of services. Topics also include principles of earthquake resistant construction, non-structural function of the building fabric, movement in buildings; plant and erection techniques.

11.8212 Construction A2 (Elective)

A study of methods and research into new forms of construction, modular co-ordination, standardization and tools of research. Topics include flat-plate and lift-slab construction, prefabrication, construction planning and management, computer application to communication, erection, quality and management control.

11.8221 Construction B1 (Elective)

Experimental investigation and research and interpretation of the results in an elected construction subject. Seminars for the exchange of discovered information. The topics will concentrate on development methods and techniques in construction including research tools, computers and model analysis.

11.8222 Construction B2 (Elective)

Current and future trends in construction. Topics include limitation and disposal of waste, mechanical devices in building, industrialized building, construction planning and control, maintenance planning and replacement policy. Seminars to discuss results of research in Construction B1.

PRINCIPAL REFERENCE BOOKS 11.8211, 11.8212, 11.8221 and 11.8222
Antill, J. M. Civil Engineering Construction. A. & R.
Lewicki, B. Building with Large Prefabricates. Elsevier.

STRUCTURES

The course covers structures as it affects the architect and the builder. Exercises in structural design and testing work in Structure Laboratory supplement the theoretical work.
11.221 Structures I


PRINCIPAL REFERENCE BOOKS

11.222 Structures II


TEXTBOOKS
Standards Association of Australia:

(ii) Steel Structures Code, CA1, 1972.

PRINCIPAL REFERENCE BOOKS

11.223 Structures III

TEXTBOOKS

Standards Association of Australia:

PRINCIPAL REFERENCE BOOKS
As for Structures II. Additional references will be suggested relevant to lecture topics.

11.2241 Structures A1 (Elective)
A study in depth of the mathematical analysis and design of basic architectural structures with an extension of the study into advanced and complex systems and future trends in the field. Typical topics include timber and plywood structures and stressed skin panels.

11.2242 Structures A2 (Elective)
A similar study to that of Structures A1, but encompassing large spans, space frames and shells.

TEXTBOOK

11.2251 Structures B1 (Electives)
11.2252 Structures B2 (Electives)
Studies in depth by model and physical analysis of the design of basic architectural structures with an extension of the study into advanced and complex structures.

11.226 Properties of Materials (Elective)
New materials and new applications of old materials; their physical and chemical properties; economics; correct and incorrect uses. Topics covered include: structure of solids; linear and non-linear elastic materials in compression and tension; inelastic behaviour; strain hardening; elastic action and yielding in pure bending; complex stress analysis; torsion, elastic, inelastic and plastic; triaxial stresses; dynamic and thermal effects; creep, fatigue; hardness; corrosion; experimental methods used in determining these properties.

11.227 Behaviour of Materials (Elective)
Lectures and demonstrations by visiting specialists on the behaviour and characteristics of a range of building materials covering in particular the aspects of corrosion, abrasion, strength, fatigue, thermal and acoustic properties. Emphasis is given to the interaction between different materials.
ARCHITECTURAL SCIENCE

The application of the methods and findings of science to the design and construction of buildings.

Study commences with basic physical phenomena and their mathematical description. The principles so established are applied to the analysis of the functional requirements of buildings, in terms of their ability to withstand and control the natural environment, and to satisfy human, thermal, visual and auditory requirements.

11.2711 Architectural Science IA

Mathematics

(a) Elementary computer programming; differentiation and integration of simple functions; the definite integral.
(b) Application to curve sketching, arc lengths, areas and volumes, moments of inertia, fluid pressures.
(c) Plane curves; conics and surfaces of revolution; quadric surfaces; ruled and warped surfaces; convex bodies; spherical trigonometry; projective configurations.

11.2712 Architectural Science IB

Physics

(b) Wave, Motion, Heat, Light and Sound: Simple harmonic motion, wave motion, interference. Doppler effect, energy transfer. Sound, longitudinal waves, overtones, intensity levels, decibels, quality of sound. Light, e.m. spectrum, Huygens Principle, curved mirrors, lenses, dispersion, interference, polarization, photometry, colorimetry. Heat, heat capacity, Joule’s equivalent, thermometry, convection, conduction, radiation, black body, emittance, absorptance.

Architecture

Man and his built environment: environmental design and total comfort; psychophysical measures in the fields of heat, light and sound.

Climatology: climate and its influence on building design.

Sun control: the sky as a sphere; map projections as representations of a spherical surface; geometry of sunlight: sun position and its representation by solar charts; design of hoods, louvres and sun control devices.


TEXTBOOKS


11.272 Architectural Science II


Lighting design Part 1: the lighting of buildings, general requirements for good lighting, lighting appraisals, natural lighting design principles, daylight factors, evaluation of daylight levels, indirect components, simplified method of calculation for architects. Practical aids—tables, graphs; quality aspects.


TEXTBOOKS


PRINCIPAL REFERENCE BOOKS
Givoni, B. Man, Climate and Architecture. Elsevier.


11.273 Architectural Science III

(a) The lighting of buildings; the eye and vision: general requirements of good lighting. Natural lighting from non-uniform skies; inter-reflected light. Use of charts, tables and other design aids. Artificial lighting: light sources and their spectral characteristics. Luminaires and light control: the lumen method of design. Quality of lighting and glare control.

(b) Acoustics, basic concepts and units. The ear and hearing. Transmission of air-borne and structure-borne sound: methods of noise control and sound insulation. Design of auditoria including analysis of shape and control of reflected sound; sound absorbent materials. Simple sound reinforcement systems. Application to various building types.

TEXTBOOKS

PRINCIPAL REFERENCE BOOKS

11.8411 Acoustics A1 (Elective)

Emphasizes the practical application of theoretical material. Principal topics include sound insulation and noise reduction in buildings and the use of acoustic models in auditoria design.

TEXTBOOK

11.8412 Computer-aided Design A2 (Elective)

The use of the computer and the availability of programmes in architecture including computer graphics. Queues and linear programming and the techniques of information storage and retrieval. Practice in the production and application of programmes.

PRINCIPAL REFERENCE BOOKS

11.8421 Acoustics B1
11.8422 Computer-aided Design B2 (Electives)

Prerequisites: 11.8411 Acoustics A1 or 11.8412 Computer-aided Design A2

Supervised individual or group student research into an approved topic within the respective fields.
11.8431 Lighting Design A1 (Elective)

Factors influencing the design of the visual field, the eye and vision, visual performance, apparent brightness and the concept of luminance design, light source colour and colour rendering, glare evaluation and control, modelling, scalar and vector illumination.

11.8432 Lighting Design A2 (Elective)

Practical aspects of lighting equipment and design, methods of light control, construction of fittings and auxiliaries, classification of light distribution, lighting systems including integration of light fittings, maintenance and economics, and exterior lighting design.

11.8441 Lighting Design B1 (Elective)

Prerequisite: Lighting Design A2.

Interior Lighting Design, problems of daylighting design, forms of integrated daylighting and artificial lighting, design by apparent brightness, Waldram’s designed appearance method, lighting appraisals and studies of lighting design problems.

11.8442 Lighting Design B2 (Elective)

Experimental investigation and research in an elected aspect of lighting design.

Seminars for the discussion of methodology results and development of techniques in application.

MANAGEMENT

11.321 Professional Practice

The ethical, legal and common standards and responsibilities governing the relations between the architect, the client and the builder; office practices and procedures; financial aspects of the practice of architecture and building.

(a) Historical background: professional institutions; code of ethics; conditions of engagement; scale of professional charges; specialist consultants.

(b) The Architects’ Registration Act of New South Wales, Laws of contract; types of contract; articles of agreement; relationship of contracting parties and the architect; architects’ responsibilities; negligence; arbitration; litigation; statutory controls; copyright.

(c) Office administration; correspondence; reports; insurance; finance; tenders; contract administration; organization of the building industry; problems of practice.
11.331 Estimating and Specifications

(a) Estimating

Methods used for estimating: standard mode of measurement; examples of "building up" the elements of a unit cost for pricing a bill of quantities; typical problems in estimating costs of building works.

Measuring and methods of adjusting variation: analysis of costs for alternative methods of construction: preparation of preliminary estimates from sketch plans.

(b) Specifications

The principles and methods and the changing trends involved in the compilation of a specification complementing other architectural documents.


Explanation of documents: general conditions: specifications of individual "trades": schedule of p.c. and provisional sums: specifications for alterations, additions and new works: specification assignment.

PRINCIPAL REFERENCE BOOKS

Cooper, B. M. Writing Technical Reports. Penguin.

11.563 Landscape Specifications and Estimates

The principles and methods involved in compilation of landscape specifications and estimates. Outright and performance specifications together with sections, clauses and terms appropriate to each type. Unit rates for commoner landscape operations—excavation—haulage—filling—topsoiling, grassing, paving, etc. Costs of labour, materials and overheads.

11.564 Landscape Professional Practice

The relationship between landscape architect, client and contractor and the legal responsibilities of each. Code of ethics and scale of charges. Office procedures, documentation and job organization. The Australian Institute of Landscape Architects and allied professional bodies.

11.573 Public Recreation Planning

Open space capable of use for public recreation is studied as a diminishing national resource, subject to increasing demand. Various open-space classifications—primitive areas, scenic areas, native reserves, national parks, historic sites, foreshore reserves and sports arenas—are examined with respect to their individual characteristics and usage capacity.

Current open-space legislation is reviewed, together with the aims and achievements of the National Parks and Wildlife Service, and successful Australian and overseas examples of planned recreational use are studied in detail.
11.574 Landscape Conservation and Rehabilitation

An examination of the various interpretations which have been placed upon both words, of the emotionalism which has clouded numerous conservation issues. Conservation is then studied as "the rational use of the environment to achieve the highest sustainable quality of living for mankind". Following the general examination of conservation and rehabilitation principles a number of specific examples will be studied, representative of landscapes threatened or adversely affected by increasing recreational use, mineral extraction, waste disposal and industrial blight. The studies will include methods of control and rehabilitation.

11.583 Environmental Impact Studies

A series of lectures and seminars designed to familiarize students with systems of impact evaluation and develop their ability in value judgment. The series will include exercises in the use of a matrix, and will examine both the policy and procedures for environmental impact studies as established by the New South Wales State Government.

A number of real cases will be studied and each student will be required to prepare an environmental impact statement relative to a proposed development.

THESSES

11.171A and 11.171B Thesis (Architecture)

A specialized individual study taken under staff supervision with the object of allowing the student either to gain knowledge in some aspect of architecture which is not covered in the course or to increase his knowledge of some aspect which has been covered. As such the thesis is essentially evidence of this individual study. The study does not require original experimental research for the purpose of discovering new facts or the testing of an hypothesis. Neither is it an essay permitting the student's unsupported opinion. The topic of the thesis is submitted by the student for the approval of the Professor of Architecture at the beginning of the fifth year and the completed thesis submitted for examination towards the end of the sixth year.

11.594 Thesis (Landscape)

A specialized individual study under staff supervision enabling the student to gain knowledge in some aspect of landscape architecture which has not been covered, or to extend his knowledge and/or understanding in one which has. As such the thesis is essentially evidence of this individual study. The study does not require original experimental research for the purpose of discovering new facts or the testing of an hypothesis. Neither is it an essay permitting the student's unsupported opinion.

The topic of the thesis must be submitted for approval of the Associate Professor of Landscape Architecture at the close of the third year. The completed thesis must be submitted for examination at the close of the fourth year.
SCHOOL OF ACCOUNTANCY

14.001 Introduction to Accounting

An introduction for non-commerce students to the nature, purpose and conceptual foundation of accounting. Information systems including accounting applications. Analysis and use of accounting reports. Relevance of accounting to managerial and technological functions including planning, decision making and control.

PRELIMINARY READING

TEXTBOOK

14.012 Accounting for Builders

A treatment of accounting information for management purposes. Management planning and control, including such techniques as critical path method.

PRELIMINARY READING

TEXTBOOKS

14.051 Law for Builders I

Introduction to the law, including brief outline of sources of law in New South Wales and the system of judicial precedent.


TEXTBOOK

14.052 Law for Builders II

Introduction to industrial law, including reference to Commonwealth and State statutory provisions dealing with conciliation and arbitration, State and Commonwealth awards. Industrial disputes. Employers' associations. Trade unions. Introduction to real property and local government law.

TEXTBOOKS
O'Dea, R. Industrial Relations in Australia. 2nd ed. West, 1970.
14.081 Introduction to Business Finance

The course objective is to provide students, other than those enrolled within the Faculty of Commerce, with an understanding of the basic concepts and principles necessary to make effective financial management decisions.

The nature of financial management: the business environment; financial analysis; planning and control; capital investment decisions; organization of the financial structure; operating and working capital management; growth and development; and the causes and prevention of financial instability and failure.

Specific industry studies.

TEXTBOOKS

BIOLOGICAL SCIENCES

17.011 Biology of Mankind

Mankind evolving; primate evolution; background of early man. Evolution of technological man—biological problems associated with communication and toolmaking; development of man as a hunting predator. Development of utilization of natural resources; development of man as a pastoralist and farmer; animal and plant domestication. Evolution of urban man, culture, society: reproductive biology and genetics of man; population growth, fluctuation, control; natural history of disease, background of medical and industrial microbiology. Effects of modern society: biology of social stress; effect of society in contemporary environments, planning and control.

17.012 General Ecology


SCHOOL OF TRANSPORTATION AND TRAFFIC

19.521 Statistics Methods and Data Processing

Introduction to statistical concepts and methods for students in Town Planning. Organization and analysis of data, elementary probability, introduction to the standard distributions, sampling distributions, statistical inference and regression methods. First course in computer programming.

TEXTBOOK
27.293 Physical Geography for Land Assessment

Physical characteristics of land and their determinants, including climate, geology, landforms, soils and vegetation. Emphasis on land types in the Sydney area. Principles and techniques of land classification with special reference to work in Australia. Classification for land potential. Laboratory classes will support the study of physical factors determining land character, and will also illustrate the use of airphotos in the identification and mapping of land types. There will be a one-day field tutorial in the Sydney region.

TEXTBOOK

PRINCIPAL REFERENCE BOOKS
Bird, E. C. F. Coasts. A.N.U.P.
Bridges, E. M. World Soils. C.U.P.
CSIRO. The Australian Environment. M.U.P.
Davies, J. I. Geographical Variation in Coastal Development. Oliver & Boyd.
Geiger, R. The Climate Near the Ground. Harvard U.P.
Griffiths, J. F. Applied Climatology. O.U.P.
Gunn, R. H. et al. Lands of the Queanbeyan-Shoalhaven Area, ACT and NSW. CSIRO Land Research Series No. 24.
Moore, R. M. ed. Australian Grasslands. A.N.U.P.
Seddon, G. Sense of Place. Western Australia U.P.
SCHOOL OF SURVEYING

29.431 Surveying and Cartography

History of surveying and its relationship to town planning. Types of survey: methods of linear measurement, corrections, chain surveys. The level, differential levelling, contours, volumes of earthworks. The theodolite, applications in building; traversing, setting out; plotting and plan drawing; measurement of areas by planimeters. Basic concepts of land tenure, land registration and cadastral surveying; plan registration. Mapping and map projections: control surveys; photogrammetry and orthophotographs.

PRINCIPAL REFERENCE BOOKS


Whyte, W. S. *Basic Metric Surveying.* Butterworths.


29.411 Surveying for Architects and Builders


SCHOOL OF BUILDING

CONSTRUCTION

An investigation of the principles of construction and fabrication of low, medium and high rise residential, commercial, industrial and special purpose buildings. Studies dealing with materials and methods of construction, building systems, prefabrication, modular co-ordination and the integration of mechanical and electrical services are closely associated with visits to factories, building sites and research laboratories. Building services are considered as an integral part of the building fabric and therefore feature prominently in the treatment of most topics.

35.001 Building Construction I

General introduction to the principles of building construction, pertaining mainly to the functional requirements of simple components in low-rise buildings.

The syllabus of 11.211 Construction I with additional lecture material dealing with the structural and non-structural functions of the principal building elements.
35.0011 Building Construction IA

35.0012 Building Construction IB

The syllabus of Building Construction I taken over two years.

PRINCIPAL REFERENCE BOOKS
Australia—Commonwealth Experimental Building Station. *Notes on the Science of Building*. No. 1+


35.032 Building Construction II

Construction methods, details and services appropriate to typical medium-rise residential, commercial and industrial buildings.

*Building Construction*. Site work procedures; concrete as a building material; foundations and footings; types of wall construction: basement, ground floor and upper floor construction; methods of roofing; waterproofing; construction of staircases; joinery; steel as a building material; internal finishes: introduction to principles and methods of surveying.

*Building Services*. Regulations governing building services; hot and cold water reticulation; sewer and stormwater drainage; sanitary plumbing; fuels and heating appliances; mechanical ventilation; central heating systems; heat load calculations and zoning, package air-conditioning units; municipal and on-site garbage disposal; security and communication systems; fire-fighting equipment; electricity distribution for residential buildings.

In Session II the subject includes 29.411 Surveying for Architects and Builders, which comprises a weekly lecture of one hour and seven practical lessons of three hours.

35.0321 Building Construction IIA

35.0322 Building Construction IIB

The syllabus of Building Construction II taken over two years.

PRINCIPAL REFERENCE BOOKS

Cement and Concrete Association of Australia. *Connection Details for Precast Prestressed Concrete*. The Association.

Standards Association of Australia. *Steel Structures: Part 8—Fabrication, Part 9—Erection*. S.A.A.

Standards Association of Australia. *Adequate Electrical Installations*. CC12. S.A.A.
35.053 Building Construction III

Construction methods and mechanical services pertaining to high-rise buildings. Building analysis project dealing with the study of buildings under construction.

(a) Building Construction. Survey of systems of construction; stability of structures; building loads and load factors; footings; retaining walls and basement construction; movement in building construction; prestressed concrete construction; flat plate and lift slab construction; principles and application of fire protection; cladding of structural frames; precast concrete wall cladding; metal and glass curtain walls.

Building Analysis Project—a study of the functional, structural and equipment relationships of various types of buildings. Suitable projects for analysis are selected by the student and are based on construction in progress or proposed buildings. Emphasis is placed on the integration of structural, mechanical and electrical systems within the overall architectural scheme.

(b) Building Services. Integration of mechanical services; sanitary plumbing systems suitable for multi-storey buildings; air-conditioning loads, psychrometrics, central and package plant and air distribution; electricity supply and distribution, systems of wiring and trunking; fire fighting services and equipment; electric lifts—main drive and power systems, electro-hydraulic lifts, control systems, equipment and installation; escalators and moving walks; mechanical garaging; communication systems, telephone, fire alarms, intercoms, pneumatic tubes and mechanical mail conveyors; planned building maintenance; pollution, disposal of special wastes and an introduction to closed ecological systems.

35.0531 Building Construction IIIA

35.0532 Building Construction IIIB

The syllabus of Building Construction III taken over two years.

PRINCIPAL REFERENCE BOOKS
Fullerton, R. L. Building Construction in Warm Climates. Vols 1 and 2. O.U.P.

35.074 Building Construction IV

A detailed study of special systems of construction pertaining to high-rise buildings and building systems in general. The provision of mechanical services on a community basis is discussed in relation to recent advances in allied disciplines.

(a) Building Construction. Special systems of construction, including lift slab, slip form, tilt slab, jack block and suspended floors; comparative survey of building systems, market evaluation and future trends; prefabrication and modular co-ordination; design aspects
of special structures; influence of recent advances in allied disciplines.

(b) Building Services. Municipal heating and cooling reticulation; special services; hospital services, food services and solar heating; closed ecological systems.

TEXTBOOKS—35.001, 35.032, 35.053 and 35.074

PRINCIPAL REFERENCE BOOKS
Lewicki, B. *Building with Large Prefabricates*. Elsevier.

35.104 Building Project
A specialized individual or group study under staff supervision with the object of allowing students to either gain knowledge in some aspect of the Building Process not covered in the course or to integrate aspects of Construction, Management and Building Science treated partly or wholly in the course. While the study does not require original experimental research, it would normally have some experimental or survey content.

35.202 Soil Mechanics for Building

BUILDING SCIENCE
Analysis and application of the physical principles which are known to control the building environment. Detailed studies are undertaken in the topics of the structure and properties of materials, the thermal environment, natural and artificial lighting, the transmission and measurement of sound, room acoustics and sound insulation, with emphasis throughout on constructional implications.

Operations research techniques and digital computers, respectively, are considered as the principal procedures and calculating tools available for optimizing the functional aspects of the building environment.
35.011 Building Science I

The syllabus of Architectural Science I (11.271) with additional lecture material:

(a) *Mathematics B*: Elementary computer programming; introduction to numerical methods; dimensional analysis.

(b) *Building Science*: The thermal environment, physiological aspects, indices of thermal stress, thermal comfort factors, introduction to thermal control by building design: natural ventilation; heat flow and insulation, conditions of heat flow, thermal conductivity, steady state heat transfer, insulation and insulating materials, moisture transfer and condensation, removal of heat by ventilation: natural lighting, units of lighting, minimum light levels, outdoor illumination levels, the daylight factor, measurement of daylight and use of models, colour; computer applications.

35.0111 Building Science IA

35.0112 Building Science IB

The syllabus of Building Science I taken over two years.

TEXTBOOKS


PRINCIPAL REFERENCE BOOKS


35.042 Building Science II

Artificial lighting, artificial light sources, the visual field and apparent brightness, polar diagrams, characteristics and classification of luminaires, properties and control of glare, the lumen method of lighting design, permanent supplementary artificial lighting of interiors; transmission and measurement of sound, definitions and sound units, perception of sound by the ear, conservation of hearing, absorption of sound, the concept of reverberation time, measurement of sound with a Sound Level Meter; speech communication and acoustics, speech interference levels, masking sound and sound blankets, masking sound systems in practice, introduction to concert hall acoustics; application of statistics to material control and sampling techniques; data-processing and computing problems requiring computer application.

PRINCIPAL REFERENCE BOOKS

Parkin, P. H. and Humphreys, H. R. *Acoustics, Noise and Buildings*. Faber & Faber.

**35.063 Building Science III**

Noise control and insulation, air-borne and solid-borne sound, air-borne noise insulation (resonance, coincidence effect, sandwich barriers, multiple barriers), solid-borne noise insulation, common noise sources (ventilation noise, industrial process noise, residential noise, road and air transport noise); non-parametric statistics; elastic and inelastic behaviour of materials of construction, shrinkage, permanent expansion, creep, rheological models for steel, concrete, timber and plastics; computer applications.

**PRINCIPAL REFERENCE BOOKS**

Harris, C. M. *Handbook of Noise Control*. McGraw-Hill.

**BUILDING GRAPHICS**

**35.021 Building Graphics I**

The syllabus of 11.131, Graphic Communication I with the exclusion of Freehand Drawing.

**35.0211 Building Graphics IA**

**35.0212 Building Graphics IB**

The syllabus of Building Graphics I taken over two years.

**MANAGEMENT**

**35.124 Building Specifications**

35.132 **Quantity Surveying I** (Measurement)

Introduction to Quantity Surveying: the origin and development of the Australian Standard Method of Measurement, its importance and application; brief study of A.S.M.M. practice notes. The subject is intended to cover:

(a) elementary Quantity Surveying of single storey buildings
(b) the correlation of plans and specifications
(c) checking plans and specifications
(d) "taking off" quantities from plans and specifications
(e) method of recording dimensions
(f) fundamentals of compiling "bill" descriptions.

35.143 **Quantity Surveying II** (Billing)


The subject is intended to cover in greater detail the subject matter introduced in Quantity Surveying I and in addition:

(a) interpretation of terms
(b) application of regulations to hydraulic services
(c) detailed "billing" procedures for single items and complete trades
(d) study of techniques of measurement
(e) on site measurement of building quantities.

35.094 **Quantity Surveying III** (Cost Planning)

Detailed study of advanced Quantity Surveying including practical exercises in:

(a) Methods of Cost Control.
(b) Liaison with consultants (i.e. members of the architectural planning and construction team).

35.152 **Estimating I**

Methods used for estimating the cost of building work: determination of unit rates for various trades and building operations.

35.163 **Estimating II**

Pricing of a selected Bill of Quantities: preparation of tenders and cost variations; cost analyses of alternative building methods; construction scheduling to determine the duration of building projects; preliminary estimates for building projects at the planning stage.

35.171 **Building Management I**

Introduction to scientific methods of construction planning and control, network analysis, determinants and matrices, layout techniques, linear programming and queuing theory.
35.182 Building Management II

Introduction to scientific management principles, administration and supervision; principles of organization, individual and group behaviour; the structure of the building industry, building acts and regulations, codes, Local Government Authority powers, fees and approvals; types of contracts and contract documents; industrial relations, employment, industrial organization; safety and accident prevention; technical supervision; decision making procedures.

PRINCIPAL REFERENCE BOOKS

35.193 Building Management III

Management functions, planning, organizing, staffing, directing, coordinating, controlling and appraisal; construction planning and control, critical path (computerized) as a tool; functions of personnel, job specification, organization structure; administrative procedures; conditions of contract; cost analysis, statistical data and work study; reports and records, conduct of meetings and technical supervision; practical assignments.

PRINCIPAL REFERENCE BOOKS
Battersby, A. Network Analysis for Planning and Scheduling. H. Martin.

35.084 Building Management IV

Construction management, analysis and preplanning; construction methods, appraisal and quantitative decision making; case studies and models for construction planning involving guest lecturers and consultants; services aspect of construction; practical assignments.

35.384 Building Design

Introduction to building design principles and the appreciation of their application in practice. Discussion and application in the studio of concepts based on the inter-relation of the multiplicity of factors and influences involved in the design and construction of high-rise buildings.
BUILDING STRUCTURES

35.391 Building Structures I

35.392 Building Structures II

35.393 Building Structures III

These subjects are similar to 11.221 Structures I, 11.222 Structures II and 11.223 Structures III of the B.Sc.(Arch.) course, but with different emphases on certain topics. For synopses and reference books see the latter subjects, listed under the School of Architecture.

36.271 Environmental Science

Mathematics—Elementary computer programming, numerical methods.

Physics—mechanics and properties of matter: wave motion, heat, light and sound.


TEXTBOOKS


PRINCIPAL REFERENCE BOOKS


Drysdale, J. W. *Designing Houses for Australian Climates*. Commonwealth Experimental Building Station.


SCHOOL OF TOWN PLANNING

36.411 Town Planning

The study of factors influencing the direction of the development and use of land in the public interest. Objectives of town and regional planning; the urban planning process; patterns and processes of urbanization; the industrial and urban revolution; housing and neighbourhood planning; planning law and administration; the Sydney Region Outline Plan; civic design; industrial location and decentralization; “Tomorrow's Canberra”; the future city.

PRINCIPAL REFERENCE BOOKS


Colman, J. *Planning and People*. A. & R.


36.412 Town Planning A (Elective)
Prerequisite: 36.411 Town Planning
An extension of 36.411 Town Planning with seminars and studio work in neighbourhood and town design in the Australian context.

36.431 Town Planning Theory and Practice I
An introductory course in the theory and practice of planning.
Definition; interaction of land use and movement; social and economic implications of planning; levels of planning; types of plans; evolution of the planning process; citizen participation in planning.
TEXTBOOK
Roberts, M. An Introduction to Town Planning Techniques. Hutchison Educational.

PRINCIPAL REFERENCE BOOKS

36.432 Town Planning Theory and Practice II
The planning process: objects, civic survey, plan preparation and implementation. The nature and purpose of zoning. The elements of a residential neighbourhood. Studio and field exercises in civic survey, environmental studies, and the layout of residential areas.

PRINCIPAL REFERENCE BOOKS
Carver, H. Cities in the Suburbs. Toronto U.P.
Howard, E. Garden Cities of Tomorrow. Faber & Faber.

36.433 Town Planning Theory and Practice III

TEXTBOOK

PRINCIPAL REFERENCE BOOKS

36.434 Town Planning Theory and Practice IV


TEXTBOOK

PRINCIPAL REFERENCE BOOKS
Bourne, L. S. *Internal Structure of the City*. O.U.P.
Bunker, R. *Town and Country or City and Region*. Melbourne U.P.
Davies, J. G. *The Evangelistic Bureaucrat*. Tavistock.

36.435 Town Planning Theory and Practice V

TEXTBOOKS

PRINCIPAL REFERENCE BOOKS
Development Corporation of N.S.W. *Report on Selective Decentralization*. N.S.W. Govt. Pr.
Glasson, J. *An Introduction to Regional Planning*. Hutchison.

36.436 Urban Geography


TEXTBOOK

PRINCIPAL REFERENCE BOOKS
Berry, B. *Geography of Market Centres and Retail Distribution*. Prentice-Hall.
Scott, P. *Geography and Retailing*. Hutchinson Univ. Library.

36.437 Civic Survey Camp

Fifth year students are required to attend a Civic Survey Camp of up to two weeks' duration. The camp will be held in or near an appropriate country centre. Students under staff supervision will study the character and function of a regional centre, patterns of rural settlement, and rural land use classifications.

36.438 Urban Government

Urban Government systems in a number of metropolitan cities are compared, and local governments are studied as participants in these systems and as political entities offering special opportunities for comparative studies. Some general political issues related to urban affairs are examined,
especially in Australia. A major aim is to acquaint students with recent developments in the study of government, politics and urban affairs and to show how some of these approaches could be used in the Australian context.

TEXTBOOKS
Boaden, N. Urban policy making. C.U.P.

PRINCIPAL REFERENCE BOOKS
Australian Institute of Urban Studies. Seminar on New Cities for Australia. A.I.U.S.
Flinn, T. A. Local Government and Politics. Scott Foreman.
Goodman, J. S. Perspectives on Urban Politics. Allyn & Bain.
Hampton, W. Democracy and Community. O.U.P.
Miles, S. Metropolitan Problems. Methuen.

36.441 Design II for Town Planners

Studio work consisting of exercises in the simple planning and analysis of urban elements such as streets, plazas and building groups. A series of seminars on design analysis and planning values runs concurrently with the studio work.

PRINCIPAL REFERENCE BOOKS
Broady, M. Planning for People. Bedford Square Press.
36.442 Civic and Landscape Design


PRINCIPAL REFERENCE BOOKS
Bacon, E. N. The Design of Cities. Thames & Hudson.
Cullen, G. Townscape. Architectural Press.
Gt. Britain—Ministry of Housing and Local Govt. Design in Town and Village. H.M.S.O.
Rowland, K. The Shape of Towns. Cheshire.
Sitte, C. City Planning According to Artistic Principles. Phaidon Press.
Zucker, P. Town and Square. Columbia U.P.

36.451 History of Town Planning


TEXTBOOK

PRINCIPAL REFERENCE BOOKS
Burke, G. Towns in the Making. Edward Arnold.
Creese, W. L. The Search for Environment. Yale U.P.
Howard, E. Garden Cities of Tomorrow. Faber & Faber.
Moholy-Nagy, S. Matrix of Man. Pall Mall.
Power, E. Medieval People. Methuen.
Rasmussen, S. F. Towns and Buildings. Liverpool U.P.
36.461 Civic Engineering

Road location, design and construction. The provision of public utility services: town water supply, sewerage treatment and disposal, electricity and gas supply, telephone communications. Drainage. Ports, railways, aerodromes.

PRINCIPAL REFERENCE BOOKS


Sherrard, H. M. *Australian Road Practice*. M.U.P.

36.471 Planning Law and Administration


TEXTBOOKS


Spann, R. N. *Public Administration in Australia*. N.S.W. Govt. Pr.

PRINCIPAL REFERENCE BOOKS


Hort, L. D. *An Introduction to Land Development Contribution Law and Practice in N.S.W.* Butterworths.


### 36.481 Land Valuation and Economics


**TEXTBOOKS**


**PRINCIPAL REFERENCE BOOKS**


Reynolds, D. J. *Economics, Town Planning and Traffic*. Institute of Economic Affairs.


### 36.491 Thesis

A specialized individual study taken under staff supervision with the object of allowing the student either to gain knowledge in some aspect of town planning which is not covered in the course or to increase his knowledge of some aspect which has been covered. As such the thesis is essentially evidence of this individual study. The study does not require original
experimental research for the purpose of discovering new facts or the test-
ing of an hypothesis; neither is it an essay permitting the student's un-
supported opinion. The thesis is submitted by the student for the approval
of the Professor of Town Planning at the end of the fourth year of the
course and the completed thesis submitted for examination towards the end
of the fifth year.

Students will participate in seminars on report and thesis writing during
fifth year and will present progress reports on their theses at the seminars.

PRINCIPAL REFERENCE BOOKS
Wiley.
Cooper, B. M. Writing Technical Reports. Penguin.
Turabian, K. L. A Manual for Writers of Term Papers. Theses and Disser-

GRADUATE SUBJECTS

1.281G Vibration and Wave Theory I
Simple oscillator, damped oscillator, ordinary differential equations, com-
plex numbers, forced vibrations and resonance, coupled oscillators. Plane
waves, interference and diffraction.

1.282G Acoustic Theory
Sources of acoustic radiation: simple, dipole, quadrupole, plane, impul-
sive source, random source, aerodynamic sources. Free field propagation in
fluids, interference and diffraction, absorption, shock waves. Boundary
effects: reflection and transmission at fluid/fluid and fluid/solid interfaces,
fluid waveguides, solid waveguides. Reception and analysis; transducers,
Fourier analysis, statistical methods, impulse measurement.

1.283G Acoustic Measuring Systems
Transducers; microphones, amplifiers, loudspeakers, filters, recorders,
pick-ups, noise generators. Acoustic measuring instruments.

1.284G Electroacoustics
Sound reinforcement systems; ambiophony; assisted resonance. Special
requirements for translation: language laboratories.

1.285G Acoustical Systems and Structures (Elective)
Vibrating systems: coupled oscillators, beams, membranes, plates, reso-
nators, acoustic filters; analogs, analog computer simulation of vibrating
systems; transfer of energy from one system to another. Reflection and
transmission at walls: rigid walls, flexible walls, multiple walls, impulsive
excitation. Sound absorbers: porous absorbers, perforated panel absorbers,
relation of properties to basic physical characteristics; measurement pro-
cedures.
1.286G  Acoustic Laboratory

Practical experiments related to the subject matter of 1.282G Acoustic Theory.

1.287G  Vibration and Wave Theory II

Fourier analysis, guided waves, electrical analogs, analysis of networks. Statistical distributions, probability, noise, correlation, sampling and digital procedures.

5.651G  Mechanical Noise Sources


5.652G  Noise Suppression Techniques (Elective)


11.910G  History of Landscape Design

Early cultures and their impact upon the primitive landscape through farming, transport and settlement patterns. Religious and social influences as reflected in the design of parks and gardens throughout history. Architectural expression and aesthetic beliefs. The Industrial Revolution and its effect upon the humanized landscape.

11.912G  Landscape Engineering

(a) Classification of soils, shear, compaction, consolidation and permeability. Stability of walls, embankments, cuttings and earth dams. Common causes of failure and remedial measures.

(b) Elementary hydrostatics and hydraulics. Bernoulli’s Theorem, flow through orifices, over notches, in channels and pipes. Pumps and reticulating equipment.

11.913G  Theory and Practice of Landscape

Aesthetic philosophies of landscape design: scale, texture and colour. Design, construction and maintenance in urban and rural environments, including highways, residential areas, parks and gardens. Erosion control and shore protection. Landscape surveys and analyses, specifications, contracts and office procedure.
11.914G  Forestry and Horticulture

Principal commercial trees—identification—planting techniques, care and maintenance, including fire and insect pests, and felling techniques. Forest nursery practice and forest economics.

Characteristics, identification and specific requirements of selected plants and shrubs. Soil requirements and cultivation. Grasses, lawn and playing field construction. Use of herbicides and selective weed killers—control of insect pests.

11.915G  Landscape Design

A series of design assignments involving the application of lecture material. It is anticipated that extra-mural work will be necessary in addition to the studio periods provided for this subject.

11.951G  Architectural Management

Emphasizes Architectural Practice.
Architectural practices: types, arrangements, partner relationships, organizational and legal responsibilities, present trends and future types of practice.

Architectural services: retainer, partial, full and comprehensive services.
Job organization: systems, research, systems controls, quality and time control.
Office organization: client relations, administrative, draughting, contractual and accounting organization and control.
Insurance: types, needs and limitations; statutory and optional insurance. Applications of contract law and insurance law in architectural practice.

11.990G  Construction, Contracts and Documentation I

11.991G  Construction, Contracts and Documentation II


11.992G  Acoustics of Speech and Music

Acoustic characteristics of speech: speech analysis and recognition: music and musical instruments: room acoustic effects on speech and music.

11.993G  The Ear and Hearing


11.994G  Hearing Conservation

11.995G Community Noise

Sources of community noise: sound propagation out-of-doors; land-use zoning, including siting of airports and highways; measurement and assessment of community noise annoyance; barriers.

11.996G Graduate Project

An individual topic to be selected from one of the following fields: physical theory; machinery, duct and vibration noise; noise control in buildings; community noise; room acoustics; or electro-acoustics.

11.997G Auditorium Acoustics (Elective)

Subjective and objective criteria for speech and music; reverberation theory; diffusion; steady state and transient room response; geometrical, physical and model analysis of auditoria; sound reflectors and sound absorbents; methods of measurement of sound absorption coefficients.

11.998G Airborne and Impact Noise Control in Buildings (Elective)

Single multiple-leaf and sandwich partitions and floors; airborne and impact noise reduction; flanking transmission; vibration isolation; performance standards and specifications; speech privacy; methods of measuring sound transmission loss and noise reduction in the field and laboratory. Plumbing and services noise control.

11.999G Advanced Acoustics of Speech and Music (Elective)

Speech communication; vocoders; development of new musical instruments, including electronic music.

35.210G Building Contracts and Documentation


35.220G Building Economics and Property Valuation

Structure of the economy; building as an investment. Feasibility, large-scale development, legal aspects. Economic models, optimization. Principles of rational building; dimensional control; system building; component technology.

35.230G Operations Planning I

35.240G Graduate Project
Session 2: Survey of the project area, preliminary submission containing an outline of the project.
Sessions 3 and 4: Consultations, group discussions and seminars on the project topics: preparation of a graduate project.

35.250G Office and Personnel Management
Office structure and organization: statutory and legal obligations of employment: divisions and delegation of responsibility and authority: office funds, accounting, taxation and insurance: staff evaluation, promotion, incentives, training, counselling; communications, information flow, storage and retrieval: assessment of work systems and patterns; case studies.

35.260G Architectural Programming

35.270G Estate Management

35.280G History of Building

35.290G Advanced Construction I

35.300G Advanced Construction II
Construction methods: plant, formwork, transport, assembly and erection.
Building elements: foundations, floors and walls, lift slab and flatplate: industrial buildings and frame design; prestressed concrete design and construction.


Materials of construction: timber engineering; aluminium and plastics; lightweight aggregate concrete; sandwich panels.

35.310G  Advanced Equipment and Services

Fabrication and installation of services for large building projects: lifts, air-conditioning, fire services. Refrigeration facilities. Cool houses. Large industrial service installations.

35.320G  Operations Planning II

Construction analysis: methods of estimating; use of statistical data and dissection for control functions. Cost analysis and cost control analysis of elements and activities.

35.330G  Cost Planning and Analysis

Cost planning history and background: definitions; coding; analysis; elements; costing a design; designing a cost. Comparative cost planning, elemental cost planning; cost control. Case study for the pre-tender stage of a building programme.

35.340G  Computer Applications I

More advanced programming in Fortran IV. Application to topics of Operational Planning. Computer graphics; perspectives, shadows, computer-produced plans and elevations. Computer simulation of spatial movement. Use of problem-oriented languages, ICES, CSMP, etc. A number of programming assignments will be included.

35.350G  Computer Applications II

Introduction to PL/1, and comparison with Fortran. Character variables, character manipulation, and use in information retrieval. Use of magnetic discs and tapes. Advanced programming assignments.

35.360G  Computer Techniques

Nature and uses of digital computers. Basic programming in Fortran IV Application to numerical methods, sorting and classifying of data, data retrieval, statistical analysis, operation of pseudo-random fractions. Production and running of programmes on the University's computer.

35.370G  Experimental Techniques

Principles of instrumentation, metering: recording and analyzing experiments. Method of dimensions, principle of similarity, testing of scale models. Experimental methods in psychology and sociology; design of subjective experiments and questionnaires.
36.920G  Theory of Neighbourhood Planning

The neighbourhood concept: its historical evolution and development. The contributions of Ebenezer Howard, Unwin and Parker, Clarence Perry, Stein and Wright, Frank Lloyd Wright, Le Corbusier, Walter Burley Griffin, Frederick Gibberd, Steen Eiler Rasmussen, and others. Neighbourhood structure, elements and form. Relationship to town and metropolitan planning.

TEXTBOOK

PRINCIPAL REFERENCE BOOKS
Creese, W. L. The Search for Environment. Yale U.P.
Howard, E. Garden Cities of Tomorrow. Faber & Faber.

36.921G  Practice of Neighbourhood Planning


PRINCIPAL REFERENCE BOOKS
Jensen, R. High Density Living. Leonard Hill.
Tetlow, J. and Goss, A. Homes, Towns and Traffic. Faber & Faber.
36.922G  Communications and Public Utilities

Interaction of land use and transportation. Vehicular and pedestrian circulation patterns. Traffic function and capacity of district and neighbourhood roads. Principles and practice of local road construction, water supply, sewage treatment and disposal, and drainage. Local supply of electricity, gas, telephone, and other services.

PRINCIPAL REFERENCE BOOKS
Lynch, K. *Site Planning*. M.I.T. Press.

36.923G  Land and Housing Economics


TEXTBOOK

36.924G  Urban Sociology

A sociological approach to the study of urban phenomena. Lectures will deal with both methodological and theoretical issues relating to the study of urban social structures. Seminars will provide students with the opportunity to examine critically a number of community studies. A research project will be undertaken by each student.

TEXTBOOK
Reissman, L. *The Urban Process*. Free Press.

PRINCIPAL REFERENCE BOOKS
Encel, S. *Australian Society*. Cheshire.
Hauser, P. M. and Schnore, I. F. *The Study of Urbanization*. Wiley.
Wilkes, J. ed. *Australian Cities: Chaos or Planned Growth?*. A. & R.
36.925G Housing Law and Administration

Housing acts and regulations at Commonwealth, State and local levels. Related town planning acts and ordinances. Commonwealth-State Housing Agreements. The organization and administration of public housing authorities. Significant overseas housing policies.

PRINCIPAL REFERENCE BOOKS

Starke, J. G. Town and Country Planning in N.S.W. Butterworths.

43.211G Botany and Ecology


43.212 Landscape Botany

Ecological and morphological significance of life forms; vegetation structure and variation in relation to environmental (particularly water and nutrient) gradients; nutrient cycling; comparative morphology and structure of major plant groups; growth and morphogenesis; reproduction and variation; principles of taxonomy and classification of selected angiosperm groups.

General Studies Programme:

Almost all undergraduates in Faculties other than Arts and Law are required to complete a General Studies programme. Courses (in addition to the Faculties of Arts and Law) which do not have this requirement are Bachelor of Science in Psychology, Bachelor of Science in Economic Geography, Bachelor of Science (Education) and Bachelor of Health Administration. The Department of General Studies publishes its own Handbook which is available free of charge. All details regarding General Studies courses and requirements are contained in it, and students are advised to obtain a copy. All enquiries about General Studies should be made to the General Studies Office, Room G15, Morven Brown Building (663 0351 Extn. 2091).
The Deputy Registrar (Student Services), Mr. P. O'Brien, is located on the first floor of the Chancellery. See Mr. O'Brien or Mr. S. Briand for matters relating to financial problems (he may be able to arrange a loan). Phone 2482 or 3164.

The Assistant Registrar (Examinations and Student Records), Mr. J. 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 B. Newell (Phone 2141), and regarding Examinations contact Mr J. Grigg (Phone 2143). This section can also advise on matters relating to discontinuation of subjects and termination of courses.

The Assistant Registrar (Admissions and Higher Degrees), Mr. J. Hill, is located on the ground floor of the Chancellery. For particular enquiries regarding undergraduate courses phone Mr. J. Beauchamp on 3319. General enquiries should be directed to 2485.

The Assistant Registrar (Student Employment and Scholarships), Mr. J. Foley, is located on the ground floor of the Chancellery. Enquiries should be directed to 2086.

The Housing Officer, Mrs. J. 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 3803.

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

The Student Counselling and Research Unit is located at the foot of Basser Steps. The Head is Mr. G. Gray. For assistance with educational or vocational problems ring 2600-2605 for an appointment.

The University Librarian is Mr. A. Horton. Library enquiries should be directed to 2649.

The Chaplaincy Centre is located in Hut F at the foot of Basser Steps. For spiritual aid consult Rev. B. W. Wilson (Anglican)—2684; Rev. Father J. King or Rev. Father M. Fallon (Catholic)—2379; Pastor H. Davis (Church of Christ)—2683; Rev. P. Holden (Methodist)—2683; Pastor G. Rollo (Seventh Day Adventist)—2683; Rabbi M. Kantor (Jewish)—3273.

The Students' Union is located on the second floor of Stage 3 of the Union where the SU full-time President or Education Vice-President are available to discuss any educational problems you might have. In addition to dispensing free educational advice the SU offers a diverse range of services including legal advice (full-time solicitor available), clubs and societies services, second-hand bookshop (buy or sell), new records/tapes at discount, food co-op, 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) and publications such as Tharunka, Speer, Concessions Book and coursework handbooks. For information about these phone 2929.
This Handbook has been specially designed as a source of reference for you and will prove useful for consultation throughout the year at this University.

For fuller details about the University—its organization, staff membership, description of courses and so on—you should consult the University Calendar.

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 General Studies.

The Calendar and Handbooks are available from the Cashier’s Office. The Calendar costs $3 (hard cover) and $2.50 (soft cover) (plus postage and packing, 90 cents). The Handbooks vary in cost between 80 cents and $1.20 (plus 20 cents postage), with the exception of General Studies, which is available free of charge.