How to use this Handbook

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

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

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

**Faculty Information.**

**Undergraduate Study** outlines the courses available in each school in the faculty.

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

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

**Graduate Study** is about higher degrees.

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

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

**Conditions for the Award of Higher Degrees.**

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

**Staff list.**

For detailed reference, see the list of **Contents.**
The University of New South Wales
PO Box 1 Kensington NSW Australia 2033 Phone 697 2222

Architecture

1986 Faculty Handbook
The address of the University of New South Wales is:

PO Box 1, Kensington
New South Wales, Australia 2033

Telephone: (02) 6972222
Telegraph: UNITECH, SYDNEY
Telex AA26054
Subjects, courses and any arrangements for courses including staff allocated, as stated in the Calendar or any Handbook or any other publication, announcement or advice of the University, are an expression of intent only and are not to be taken as a firm offer or undertaking. The University reserves the right to discontinue or vary such subjects, courses, arrangements or staff allocations at any time without notice.

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

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General Information

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

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

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

Some people who can help you

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

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

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

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

Note: All phone numbers below are University extension numbers. If you are outside the University, dial 697 2222 and ask for the extension. Alternatively you may dial 697 and then the extension number. This prefix should only be used when you are certain of the extension that you require as callers using 697 cannot be transferred to any other number.
The Senior Administrative Officer (Examinations), Mr John Grigg, is located on the ground floor of the Chancellery. Enquiries regarding examinations, including examination timetables and clash of examinations should be directed to 3088.

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

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

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

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

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

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

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

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

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

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

Calendar of Dates

The Academic Year

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

Session 1 commences on the first Monday of March.

1986

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

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Australian Graduate School of Management

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

Tuesday 25
Last day for undergraduate students who have completed requirements for pass degrees to advise the Registrar they are proceeding to an honours degree or do not wish to take out the degree for which they have applied for any other reason.

University College/Australian Defence Force Academy

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

Examinations
23 June to 13 July

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

Examinations
25 October to 15 November

March

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

Monday 3
List of graduands for April/May ceremonies and 1984 prizewinners published in The Sydney Morning Herald

Wednesday 5
Last day for notification of correction of details published in The Sydney Morning Herald on 6 March concerning April/May graduation ceremonies

Monday 10
Last day for acceptance of enrolment by new undergraduate students (late fee payable thereafter)

Thursday 15
Last day for discontinuation of courses which extend over Session 1 only

Friday 25
Anzac Day — Public Holiday

Wednesday 30
Confirmation of Enrolment forms despatched to all students

April

Friday 18
Last day for undergraduate students to discontinue without failure subjects which extend over Session 1 only

Friday 28
Good Friday — Public Holiday

Saturday 29
Easter Saturday — Public Holiday

Monday 31
Easter Monday — Public Holiday

May

Friday 9
Last day for acceptance of corrected Confirmation of Enrolment forms

Monday 12
Application for Admission to Degree forms

Wednesday 14
Publication of provisional timetable for June/July examinations

May Recess begins

Tuesday 26 Last day for undergraduate students completing requirements for degrees at the end of Session 1 to submit Application for Admission to Degree forms

Thursday 29
Publication of provisional timetable for June/July examinations
Sunday 18  **May Recess ends**  Monday 8  Last day for notification of correction of details published in *The Sydney Morning Herald* on 3 September concerning October graduation ceremonies

Friday 23  Last day for students to advise of examination clashes  

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

Monday 9  Queen's Birthday — Public Holiday  

Sunday 15  **Session 1 ends**  

Monday 16  **Study Recess begins**  

Sunday 22  **Study Recess ends**  

Monday 23  **Midyear Recess begins**  Examinations begin  

July  **Wednesday 9**  Examinations end  

Monday 21  Assessment results mailed to students  

Tuesday 22  Assessment results displayed on University noticeboards  

*To Friday 25 July: Students to amend enrolment programs following receipt of June examination results*  

Sunday 27  **Midyear Recess ends**  

Monday 28  **Session 2 begins**  

August  **Friday 8**  Last day for students to discontinue without failure subjects which extend over the whole academic year  

Monday 25  **August Recess begins**  

Tuesday 26  Last day for undergraduate students who have completed requirements for pass degrees to advise the Registrar they are proceeding to an honours degree or do not wish to take out the degree for which they have applied for any other reason  

Sunday 31  **August Recess ends**  

September  **Wednesday 3**  List of graduands for October graduation ceremonies published in *The Sydney Morning Herald*  

**Monday 8**  Last day for notification of correction of details published in *The Sydney Morning Herald* on 3 September concerning October graduation ceremonies

Friday 19  Last day for undergraduate students to discontinue without failure subjects which extend over Session 2 only  

Monday 29  **Confirmation of Enrolment** forms despatched to all students  

Tuesday 30  Last day to apply to UCAC for transfer to another tertiary institution in New South Wales  

October  **Wednesday 8**  Last day for acceptance of corrected **Confirmation of Enrolment** forms  

Thursday 9  Publication of provisional examination timetable  

Friday 10  Last day for applications from undergraduate students completing requirements for degrees at the end of Session 2 to submit applications for **Admission to Degree** forms  

Monday 6  **Eight Hour Day — Public Holiday**  

Friday 17  Last day for students to advise of examination timetable clashes  

Thursday 30  Publication of timetable for November examinations.  

November  **Sunday 9**  

Monday 10  

Sunday 16  

Monday 17  

December  **Friday 5**  Examinations end  

Monday 22  Assessment results mailed to students  

Tuesday 23  Assessment results displayed on University noticeboards  

Thursday 25  **Christmas Day — Public Holiday**  

Friday 26  **Boxing Day — Public Holiday**
1987

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

**Session 1**
- (14 weeks)
  - 2 March to 10 May
  - May Recess: 11 May to 17 May
  - 18 May to 14 June
  - Study Recess: 15 June to 21 June
  - Midyear Recess: 22 June to 26 July
  - Examinations: 22 June to 8 July

**Session 2**
- (14 weeks)
  - 27 July to 23 August
  - August Recess: 24 August to 30 August
  - 31 August to 8 November
  - Study Recess: 9 November to 15 November
  - Examinations: 16 November to 4 December

**Faculty of Medicine**

- **First and Second Years**
- As for other faculties

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

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

**University College/Australian Defence Force Academy**

- **Session 1**
  - (14 weeks)
  - 2 March to 3 May
  - May Recess: 4 May to 17 May
  - 18 May to 19 June
  - Midyear Recess: 20 June to 12 July
  - Examinations: 22 June to 10 July

- **Session 2**
  - (13 weeks)
  - 13 July to 23 August
  - August Recess: 24 August to 6 September
  - 7 September to 23 October
  - Examinations: 26 October to 13 November

**Australian Graduate School of Management**

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

**Public Holiday**

- **January**
  - Wednesday 1
  - Public Holiday (New Year)

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

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

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

- **Monday 26**
  - Australia Day — Public Holiday

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

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

- **Friday 17 to Monday 20**
  - Easter — Public Holiday

- **April**
  - Saturday 25
  - Anzac Day — Public Holiday
Organization of the University

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

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

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

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

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

The University Colours
The colours of the University are black and gold.

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

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

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

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

The Professorial Board
The Professorial Board is one of the two chief academic bodies within the University and includes all the professors from the various faculties, non-professorial Heads of Schools and Chairmen of Faculty, and several ex-officio and appointed members. It deliberates on all questions such as matriculation requirements, the content of courses, the arrangement of syllabuses, the appointment of examiners and the conditions for graduate degrees. Its recommendations on matters of major policy are presented to Council for its consideration and adoption.

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

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

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

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

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

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

General Administration
The administrative work of the University is divided between the Deputy Principal (Administration) who is responsible for registrarial, property and staffing matters and the Deputy Principal (Planning and Information) who is responsible for planning information and analysis, finance and the provision of computing services.
Student Representation on Council and Faculties/Boards
Three members of the University Council may be students elected by students. All students who are not full-time members of staff are eligible to stand for a two-year term of office. The students who are elected to the Council are eligible for election to the committees of Council.

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

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

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

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

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

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

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

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

General Studies Program
Almost all undergraduates in faculties other than Arts and Law are required to complete a General Studies program. The Department of General Studies within the Board of Studies in General Education publishes its own Handbook which is available free of charge. All enquiries about General Studies should be made to the General Studies Office, Room G56, Morven Brown Building, phone 2436.

General Information
Student Services and Activities

Accommodation

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

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

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

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

Shalom College
Shalom College is a Jewish residential college. It provides accommodation for 86 men and women students. Non-resident membership is available to students who wish to avail themselves of the Kosher dining room and tutorial facilities.
Fees are payable on a session basis. Conferences are catered for, particularly with Kosher requirements. Rates are available on application. Apply in writing to the Master, Shalom College, the University of New South Wales, PO Box 1, Kensington, NSW 2033.

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

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

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

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

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

Associations, Clubs and Societies

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

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

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

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

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

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

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

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

Sport and Recreation Section

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

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

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

Physical Education and Recreation Centre

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

Student Counselling and Research Unit

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

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

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

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

Careers and Employment Section

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

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

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

Together with the Student Counselling and Research Unit, this section is located in the huts near the foot of Basser Steps (access from College Road or Engineering Road). For further information, telephone 697 5470.

Student Health Unit

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

General Information

Services

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

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

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

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

The Students' Union

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

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

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

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

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

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

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

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

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

The University Library

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

For details consult Faculty Information in the relevant Faculty Handbook.

There are also library services at other centres:

- The Water Reference Library situated at Manly Vale (telephone 948 0261) which is closely associated with the Physical Sciences Library.
- The library at the Australian Defence Force Academy, ACT, serving the Faculty of Military Studies.
Each library provides reference and lending services to staff and students and each of the libraries on the Kensington campus is open throughout the year during the day and evening periods. The exact hours of opening vary during the course of the academic year. For recorded hours of opening telephone 697 2687.

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

The University Union

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

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

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

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

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

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

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

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

Financial Assistance to Students

Tertiary Education Assistance Scheme

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

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

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

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

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

Other Financial Assistance

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

1. Deferment of Payment of Fees

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

2. Short Term Cash Loans

Donations from various sources have made funds available for urgent cash loans not exceeding $100. These loans are normally repayable within one month.

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

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

The University has also been the recipient of donations from the Arthur T. George Foundation, started by Sir Arthur George and his family, for the endowment of a student loan fund.
In all cases assistance is limited to students with reasonable academic records and whose financial circumstances warrant assistance.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3. Re-enrolment

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

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

4. Restrictions Upon Re-enrolling

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

5. New Research Students

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

6. Re-enrolling Research Students

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

7. Submission of Project Report

Students registered for formal masters degree courses (course codes 8000-9999) who at the commencement of Session 1 have completed all the work for a degree or diploma except for the submission of the relevant project report are required to re-enrol by the end of the second week.
of Session 1. Completion of enrolment after then will incur a penalty (see section 16, below).

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

8. Enrolments by Miscellaneous Students

Enrolments by Miscellaneous students are governed by the following rules:

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

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

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

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

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

(6) As a general rule the University does not permit miscellaneous students to enrol in first year undergraduate subjects. Enquiries concerning eligibility for enrolment may be made at the Student Enquiry Counter, the Chancellery (telephone 6973095).

9. Final Dates for Completion of Enrolment

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

10. Student Card — Conditions of Issue

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

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

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

(2) The card is not transferable.

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

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

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

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

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

11. Payment of Fees

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

12. Assisted Students

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

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

13. Extension of Time

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

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

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

15. Fees

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

University Union Entrance Fee
Payable on first enrolment $40

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

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

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

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

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

University Union annual subscription $115
Sports Association annual subscription $25
Students' Union Annual Subscription
Students enrolling in full-time courses $34
Students enrolling in part-time courses or as miscellaneous students $28

Miscellaneous Fund annual fee $40
This fee is used to finance expenses generally of a capital nature relating to student activities and amenities. Funds are allocated for projects recommended by the Student Affairs Committee and approved by the University Council.

Special Examination Fees
Examinations conducted in special circumstances for each subject $20
Review of examination results for each subject $20

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

16. Penalties

(1) Failure to lodge enrolment form according to enrolment procedure $20
(2) Payment of fees after end of second week of session $20
(3) Payment of fees after end of fourth week of session $40

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

17. Exemptions — fees

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

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

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

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

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

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

(5) Students who while enrolled at and attending another university (or other tertiary institution as approved by the Vice-Chancellor) in a degree or diploma course are given...
approval to enrol at the University of New South Wales but only as miscellaneous students for subjects to be credited towards the degrees or diplomas for which they are enrolled elsewhere are exempt from all Student Activities Fees and the University Union Entrance Fee.

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

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

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

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

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

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

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

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

18. Variations in Enrolment (including Withdrawal)

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

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

(3) Enrolment in additional subjects
Applications for enrolment in additional subjects must be submitted by:
28 March 1986 for Session 1 only and whole year subjects;
22 August 1986 for Session 2 only subjects.

(4) Withdrawal from subjects
Applications to withdraw from subjects may be submitted throughout the year but applications lodged after the following dates will result in students being regarded as having failed the subjects concerned, except in special circumstances:
(a) for one session subjects, the end of the seventh week of that session (18 April or 19 September).
(b) for whole year subjects, the end of the second week of Session 2 (8 August).

(5) Withdrawal from Course – Refunds – Student Activities Fees
Whether or not a student's withdrawal entails academic penalties (covered in item (4) above) there are rules governing Student Activities Fees refunds in the case of complete withdrawal from a course as follows:
(a) If notice of withdrawal from a course is received before the first day of Session 1, a refund of all Student Activities Fees paid will be made.
(b) If notice of withdrawal is received on or after the first day of Session 1, a partial refund of the University Union Entrance Fee will be made on the following basis: any person who has paid the entrance fee in any year and who withdraws from membership of the University Union after the commencement of Session 1 in the same year, or who does not renew membership in the immediately succeeding year may on written application to the Warden receive a refund of half the entrance fee paid.
(c) If the notice of withdrawal is given before the end of the fourth week of Session 1 (28 March 1986) a full refund of Student Activities Fees paid will be made; if notice is given before the end of the seventh week of Session 1 (18 April 1986) a refund of three-quarters of the Student Activities Fees paid will be made; if notice is given before the beginning of Session 2 (28 July 1986) a refund of one-half of the Student Activities Fees paid will be made; if notice is given before the end of the seventh week of Session 2 (19 September 1986) a refund of one-quarter of Student Activities Fees paid will be made; thereafter no refund will be made except that provided for in (d) below.
(d) If a student's enrolment in any year is for one session only and the student gives notice of withdrawal prior to the end of the fourth week of that session (28 March or 22 August 1986) a full refund of Student Activities Fees paid will be made; if notice is given before the end of the seventh week of that session (18 April or 19 September 1986) a refund of one-half of the Student Activities Fees paid will be made; thereafter no refund will be made.
(e) The refunds mentioned in (c) and (d) above may be granted by the Registrar to a student unable to notify the Registrar in writing by the times required provided evidence is supplied that the student has ceased attendance by those times.
6) Acknowledgements
The Registrar will acknowledge each application for a variation in enrolment (including withdrawals from subjects) as follows:

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

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

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

Leave of Absence

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

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

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

Admission with Advanced Standing

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

1. the Board shall not grant such standing under these rules as is inconsistent with the rules governing progression to such degree or award as are operative at the time the application is determined;

2. where students transfer from another university such students shall not in general be granted standing in this University which is superior to what they have in the University from which they transfer;

3. the standing granted by the Board in the case of any application based on any degree/s or other awards already held by the applicants, shall not be such as will permit them to qualify for the degree or award for which they seek to register without completing the courses of instruction and passing the examinations in at least those subjects comprising the later half of the course, save that where such a program of studies would involve them repeating courses of instruction in which the Board deems them to have already qualified, the Board may prescribe an alternative program of studies in lieu thereof;

4. the standing granted by the Board in the case of any application based on partial completion of the requirements for any degree or other award of another institution shall not be such as will permit the applicants to qualify for the degree or award for which they seek to register by satisfactory completion of a program of study deemed by the Board to be less than that required of students in full-time attendance in the final year of the course in which the applicants seek to register;

5. the standing granted by the Board in the case of any application based on the partial completion of the requirements for any degree or other award of the University may be such as to give full credit in the course to which the applicants
seek to transfer for work done in the course from which they transfer.

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

Resumption of Courses

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

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

Examinations

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

Timetables

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

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

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

Assessment of Course Progress

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

Examination Results

Grading of Passes

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Distinction</td>
<td>an outstanding performance</td>
</tr>
<tr>
<td>Distinction</td>
<td>a superior performance</td>
</tr>
<tr>
<td>Credit</td>
<td>a good performance</td>
</tr>
<tr>
<td>Pass</td>
<td>an acceptable level of performance</td>
</tr>
<tr>
<td>Satisfactory</td>
<td>satisfactory completion of a subject for which graded passes are not available</td>
</tr>
</tbody>
</table>

Pass Conceded

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

Pass Terminating

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

Availability of Results

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

No examination results are given by telephone.

Review of Results

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

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

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

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

Special Consideration

Students who believe that their performance in a subject, either during session or in an examination, has been adversely affected by sickness or any other reason should inform the Registrar and ask for special consideration in the determination of their standing.
Such requests should be made as soon as practicable after the occurrence and in any event no more than seven days after the final examination in a subject.

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

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

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

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

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

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

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

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

Use of Linguistic Dictionaries
The answers in all examinations and in all work submitted must be in English unless otherwise directed. Students may apply for permission to use standard linguistic dictionaries in the presentation of written work for assessment. Such applications should be made in writing to the Officer-in-charge, Examinations Section not later than 14 days prior to the need to use the linguistic dictionary.

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

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

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

1. Candidates are required to obey any instruction given by an examination supervisor for the proper conduct of the examination.

2. Candidates are required to be in their places in the examination room not less than fifteen minutes before the time for commencement.

3. No bag, writing paper, blotting paper, manuscript or book, other than a specified aid, is to be brought into the examination room.

4. Candidates shall not be admitted to an examination after thirty minutes from the time of commencement of the examination.

5. Candidates shall not be permitted to leave the examination room before the expiry of thirty minutes from the time the examination commences.

6. Candidates shall not be re-admitted to the examination room after they have left it unless, during the full period of their absence, they have been under approved supervision.

7. Candidates shall not by any improper means obtain, or endeavour to obtain, assistance in their work, give, or endeavour to give, assistance to any other candidate, or commit any breach of good order.

8. All answers must be in English unless otherwise stated. Foreign students who have the written approval of the Registrar may use standard linguistic dictionaries.

9. Smoking is not permitted during the course of examinations.

10. A candidate who commits any infringement of the rules governing examinations is liable to disqualification at the particular examination, to immediate expulsion from the examination room and to such further penalty as may be determined in accordance with the By-laws.
Writing in Examinations
Candidates are permitted to take pens, pencils and erasers into the examination room but are advised that all answers must be written in ink. Except where expressly required, pencils may be used only for drawing, sketching or graphical work.

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

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

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

Restrictions upon Student Re-enrolling

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The Chairman of the Professorial Board, or if its Chairman is unable to serve, a member of the Professorial Board, nominated by the Chairman of the Professorial Board, or when the
Chairman of the Professorial Board is unable to make a nomination, nominated by the Vice-Chairman.

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

The decision of the Committee shall be final.

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

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

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

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

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

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

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

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

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

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

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

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

Schedule A

(See First Year Rule 1. above)

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

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

*For details see the appropriate Faculty Handbook.
### Admission to Degree or Diploma

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

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

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

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

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

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

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

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

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

Absence from Classes

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

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

Student Records

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

Release of Information to Third Parties

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

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

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

Change of Address

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

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

Ownership of Students’ Work

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

Notices

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

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

Academic Dress

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

Further Information

Lost Property

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

The Calendar

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

From the earliest times people have toiled to modify their environment to satisfy the physical and spiritual aspirations of their lives. In each great culture there is evidence of these aspirations being fulfilled in buildings of greater wonder, cities and towns that reflect social, political and technological circumstances, and landscapes that are of lasting significance.

Today all of those concerned with the quality of our environment are faced with issues of growing complexity. These complexities arise from increased communication facilities, technological developments and social and political aspirations and needs.

The professions working in the fields of the man-made and built environments will be required to evolve in the context of a rapidly developing technology solutions to the problems of an increasing population and the demands of people for an improvement in their quality of life.

The Faculty's purpose is to provide an academic climate that is conducive to the pursuit of knowledge, the search for truth, and the advancement of the quality of the man-made and built environments.

The Faculty offers courses that are designed to provide an education and qualification to practise the professions of architecture, building, landscape architecture, and town planning. It provides opportunities for graduate and professional development studies, and for research in, and across, the fields of the man-made and built environments.
Faculty Information

Some People Who Can Help You

If you require advice about enrolment, degree requirements, progression within courses, or any other general faculty matters, contact:

Mr Brian Newell, Senior Administrative Officer, Faculty of Architecture

For information and advice about subject content and requirements contact the appropriate person below:

Associate Professor Richard Apperly, School of Architecture
Room 100, Architecture Building. Extension 4780.

Professor Richard Clough, School of Landscape Architecture
Room 208, Old Main Building. Extension 4844.

Ms Lyn Forsyth, School of Building

Professor Hans Westerman, School of Town Planning
Room 205, Old Main Building. Extension 4837.

Professor John Haskell, Graduate School of the Built Environment
Room 212, Sir Robert Webster Building. Extension 4848.

Faculty of Architecture
Enrolment Procedures

Architecture Degree Course

All students re-enrolling in Architecture courses in 1986 should obtain a copy of the free booklet Architecture Enrolment Procedures 1986 available from the School Office. This booklet provides detailed information on enrolment procedures and enrolment timetable.

Town Planning Degree Course

Before proceeding on practical experience, Town Planning students are required to obtain instruction relating to enrolment procedure from the School of Town Planning office. This particularly applies to students in Years 3 and 4.

Bachelor of Building Degree Course

The Building course is offered on a credit-point semester-system basis and students are required to enrol for the full year (two semesters) on the dates and at the times shown in the booklet Building Enrolment Procedures 1986.

Building students who elect to take their industrial semester in Session 1 in any year are required to enrol at the beginning of that year.
Enrolment for Session 2 subjects is a preliminary enrolment and accepted subject to the student having obtained the appropriate prerequisites before commencement of that session.

Rules for Progression

Progression in courses offered in the Faculty of Architecture is generally dependent on the successful completion of prerequisites and/or co-requisites for subjects as listed in the schedules of subjects for each course.

Where the academic record of students is not of a satisfactory standard, the Head of School may recommend a restricted program. This applies to all undergraduate courses offered by the Faculty.

Library Facilities

Although any of the university libraries may meet specific needs, the staff and students of the Faculty of Architecture are served mainly by the Physical Sciences Library and the Studio Collection housed in the Faculty of Architecture. There is also some material still contained in the undergraduate collection.

The Physical Sciences Library

This library, which is situated on Levels 6 and 7 of the Library tower, caters for the information needs of staff, graduate and undergraduate students in the areas of pure and applied science, engineering and architecture. The library's collection of books, serials and microfilms bears the prefix 'P' and details of each item are included in the microfiche monograph and serials catalogues. In addition, there is a map collection on Level 6. Journals with the prefix 'PJ' may not be borrowed.

Trained staff are available at all times to assist readers with their enquiries.

The Studio Collection contains a small collection of reference, course-related and general interest material. This material is not for loan but in the majority of cases loan copies are held in the Physical Sciences Library or in the undergraduate collection. The Studio Collection is open from 8.30am to 6.00pm during session and from 9.00am to 5.00pm during vacation, and a librarian is available to provide reference services and assist with readers' enquiries for several hours each day.

Students may also wish to use the undergraduate collection for associated reading.

Physical Sciences Librarian   Marian Bate

Undergraduate Services

- The undergraduate collection caters for the needs of students in Years 1 and 2 and other groups where large numbers require mass teaching. Levels 3 and 4.
- The Open Reserve Section, houses books and other material which are required reading. Level 2.
- The Audio-Visual Section, contains cassette tapes, mainly of lectures and other spoken word material. The Audio-Visual Section has wired study carrels and cassette players for student use. Level 3.
- The Reader Education program provides orientation tours and introductory library research method lectures to students.

Faculty Laboratories

Research Laboratories

The Faculty controls research laboratories situated on campus at Kensington and at the University of New South Wales Research Station, King Street, Randwick. The laboratories have sections equipped for work on environment and climate, materials, model testing, services, lighting and acoustics. Extensive testing and research equipment and workshop facilities are available, including a wind-rain machine, a weatherometer, an artificial sky and sun, a structural modelling facility, a structural testing bay and a controlled atmosphere chamber. The equipment and facilities of the laboratories are continually being expanded.

Research work and testing programs carried out in the laboratories 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 prestressed concrete structures.
- Applications of motor-mesh (ferro-cimento) structures in building.
Architecture

Penetration of moisture into and through concrete.
Development of methods of extending the use of solar energy and prefabrication techniques in domestic architecture.
Development of form-finding techniques and fabrication methods for folded-surface structures.
Development of techniques for earth-wall construction. Study of noise transmission in buildings.
Investigation of traffic noise measurement, analysis and prediction.
The effectiveness of artificial luminous environments.

Computing Facilities Laboratory

Established within the Faculty is the University Computer Graphics Facility, a laboratory for the teaching and research of computing methods with a particular emphasis on the use of computer graphics. The laboratory has the following major equipment: VAX 11/750 computer with 2 Mbytes of memory, 124 Mbytes of disk storage; Tektronix storage tube graphics terminals with hard copy and digitizing capability; a refresh-based computer graphics terminal with light pen; electrostatic printer/plotter; multi-pen small flatbed plotter; multi-pen high resolution drafting plotter and several interactive terminals.

The computer is network connected to the University's central computing system, a major Cyber 171 and three VAX 11/780 computers. The laboratory equipment is optionally connected to any of these computers by an automatic switching system.

Active research is under way in the following areas:
The use of computing techniques and graphics in architectural design.
Rational computer-based documentation methods in building. The development of management information systems for building organizations.
Analysis and development of rational approaches to landscape design and planning.
Various projects in the general areas of environmental and building science.

Student Clubs and Societies

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

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

The Faculty of Architecture consists of the School of Architecture including the Department of Industrial Arts, the School of Building, the School of Landscape Architecture, the School of Town Planning and the Graduate School of the Built Environment. These schools and this department conduct undergraduate courses in the fields of architecture, industrial arts, building, landscape architecture and town planning. The courses provide education and training in the arts and sciences involved in the design and construction of buildings, in the development of cities, in landscape and in industrial arts. In addition to professional and vocational training the courses include general studies subjects to provide graduates with a broad understanding of the humanities and the social sciences.

School of Architecture

Head of School
Associate Professor R. E. Apperly

Architecture is concerned with the design and construction of buildings which will not only satisfy the physical needs of their users but also enrich the lives of all those who experience them. An architect in today's society needs to have specialized skills in order to deal with complex technological problems and opportunities, but he or she also needs an understanding of the environmental, cultural, social and legal context in which architecture is brought into being. Furthermore, present day architects must respond to an increasing public awareness of the need to conserve finite resources, not the least of which is the stock of older buildings which can still perform useful functions and add richness to the built environment. The architect's primary contribution is as a designer who recognizes and attempts to resolve all of the diverse forces which are brought to bear on the creation of a building. To perform this function, he or she must understand the roles of all people involved in the procurement of buildings and, when necessary, co-ordinate the work of specialist consultants.

Recognizing the many and varied career paths now available to architects, the courses offered by the School are built on a core of 'essential knowledge' but are flexibly structured to encourage students to develop their own interests and creative abilities. The Bachelor of Architecture degree course leads to full professional qualifications; the Bachelor of Science (Design Studies) degree course provides an architectural education for those whose interests and ambitions lie outside the field of professional architectural practice.

The courses in Architecture currently offered are:
Bachelor of Architecture course (3275/3280)
Bachelor of Science (Design Studies) course (3275/3295).

Bachelor of Science (Design Studies) and Bachelor of Architecture Degree Courses

These undergraduate courses lead to the award of the BSc(DesStud) degree at Pass level, the BSc(DesStud) degree at Honours level, and the BArch degree for which Honours may be awarded based on performance throughout the course.

The subjects in these courses are offered on a semester-unit credit-point basis. Credit points generally correspond to class
hours per week per semester. The minimum time, and the 
credit points required to complete the degree courses offered 
by the School are as follows:

<table>
<thead>
<tr>
<th>Degree/Program</th>
<th>Minimum time (semesters)</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc (DesStud) degree at Pass level</td>
<td>6</td>
<td>140</td>
</tr>
<tr>
<td>BSc (DesStud) degree at Honours level</td>
<td>8</td>
<td>187</td>
</tr>
<tr>
<td>BArch degree</td>
<td>10*</td>
<td>234</td>
</tr>
<tr>
<td>BSc (DesStud) and BArch degrees</td>
<td>11*</td>
<td>257</td>
</tr>
</tbody>
</table>

*In addition, six months' practical experience is required for the BArch degree.

Students commencing their studies in architecture enrol in the BSc (DesStud)/BArch program (Course 3275) and undertake a mandatory program of study in the first two semesters. Thereafter students may, with the approval of the Head of School, take subjects in the order best suited to their individual preferences, subject to prerequisite requirements and provided the subjects are being offered in the appropriate semester. On acquiring 117 credit points, and after the completion of at least five semesters of study, students proceeding to the award of the BArch degree transfer into the BArch program (Course 3280) and students proceeding to the award of the BSc (DesStud) degree transfer into the BSc (DesStud) degree program (Course 3295).

Students may, with the approval of the Head of School, transfer from the BArch program to the BSc (DesStud) program or from the BSc (DesStud) to the BArch program. It should be noted that credit points gained in the BArch program (Course 3280) cannot be credited towards the award of the BSc (DesStud) degree.

Subjects are offered in accordance with a program to be approved annually. The program of study for students in the BSc (DesStud) degree course requires that not less than 70 per cent of the subjects taken be offered by the Faculty of Architecture, and not more than 30 per cent of the subjects taken be offered by universities and approved institutions, other than the Faculty of Architecture, and approved by the Head of School. The program of study for students in the BArch degree course seeking professional qualification provides for 60 per cent of study time being devoted to mandatory core subjects and 40 per cent to elective subjects. Normally core subjects are offered in alternate semesters and elective subjects according to demand and the availability of staff and resources.

### 3295 Bachelor of Science (Design Studies)

#### Course at Pass Level

**Bachelor of Science (Design Studies) BSc (DesStud)**

The BSc (DesStud) degree course aims to provide students with the opportunity to specialize in particular fields of architecture, design, and heritage conservation studies in accordance with approved programs. These programs include studies in design, technology, architectural and materials sciences, conservation, history, communication and management. Provision is also made for students to study subjects in other faculties of the University for credit in the course.

The BSc (DesStud) degree course at Pass level may be completed in a minimum of six semesters of full-time study and with the gaining of 140 credit points. The program of study is as follows:

**Mandatory Subjects**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>First semester</td>
<td><strong>25</strong></td>
<td></td>
</tr>
<tr>
<td>Second semester</td>
<td><strong>22</strong></td>
<td></td>
</tr>
<tr>
<td>11.4602 Introduction to Computing</td>
<td><strong>2</strong></td>
<td></td>
</tr>
<tr>
<td>Graduation Project</td>
<td><strong>8</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Elective Subjects**

Minimum credit points which must be taken from subjects offered by the Department of General Studies.

Minimum credit points which must be taken from subjects offered by the Faculty of Architecture. These may be either core or elective subjects.

Maximum credit points which may be taken from subjects offered by universities and approved institutions, other than the Faculty of Architecture.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>34</strong></td>
<td><strong>140</strong></td>
<td></td>
</tr>
</tbody>
</table>

Subjects totalling 23 credit points must be taken in the graduation semester (ie after transferring from Course 3275 to Course 3295). These subjects include 11.4701 Graduation Project (8 credit points) and may only be credited to the BSc (DesStud) degree program.

**3295 Bachelor of Science (Design Studies) Course at Honours Level**

**Bachelor of Science (Design Studies) BSc (DesStud)**

Enrolment in this course normally follows completion of the BSc (DesStud) course at Pass level. Selection into the Honours program is based upon performance in the BSc (DesStud) degree course at Pass level, especially upon achievement in the graduation semester. It involves a minimum of two semesters of full-time study of an approved program. To qualify for the degree at this level the program of study is as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc (DesStud) degree at Pass level</td>
<td>to be obtained in accordance with the program set out above</td>
<td><strong>140</strong></td>
</tr>
<tr>
<td>Honours semester 1</td>
<td><strong>23</strong></td>
<td></td>
</tr>
<tr>
<td>11.4705 Honours Project (Honours semester 2)</td>
<td><strong>24</strong></td>
<td></td>
</tr>
<tr>
<td><strong>187</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The 47 credit points gained in the Honours semesters may be credited only to the BSc (DesStud) degree at Honours level. Honours for this degree are awarded on the performance in the Honours program.
3280
Bachelor of Architecture Course

Bachelor of Architecture
BArch

This course provides the academic education and practical experience leading to professional qualifications in architecture. It aims to equip students with the theoretical and practical knowledge, skills and techniques needed in the design and construction of buildings. It contains a balance of architectural design, technology, science, history, communication, and practice and management. The following program of study offers a range of mandatory and elective subjects which enables students to major in specific areas of study:

Mandatory Subjects

<table>
<thead>
<tr>
<th>Credit points</th>
</tr>
</thead>
</table>
First semester  | 25 |
Second semester | 22 |
The core subjects (other than those taken in Semesters 1 and 2) listed in the schedule of subjects | 94 |

Elective Subjects

Minimum credit points which must be taken from subjects offered by the Department of General Studies* | 12 |
Minimum credit points which must be taken from subjects offered by the Faculty of Architecture | 53 |
Maximum credit points which may be taken from subjects offered by universities and approved institutions, other than the Faculty of Architecture, and approved by the Head of School | 16 |

Research Methods | 2 |
Dissertation | 10 |

Practical Experience

Approved practical experience | nil |

<table>
<thead>
<tr>
<th>Credit points</th>
</tr>
</thead>
</table>

*One 28-hour General Studies subject has a value of 2 credit points. One 56-hour General Studies subject has a value of 4 credit points.

The course has been arranged in the following five subject areas:

<table>
<thead>
<tr>
<th>Credit points for core subjects</th>
</tr>
</thead>
</table>
1. Architectural Design        | 50 |
   General                    | 14 |
   Specific                   | 36 |
2. Architectural Environment   | 29 |
3. Technology                 | 34 |
4. Practice                   | 11 |
5. Communication              | 17 |

The arrangement of the course in five subject areas identifies the main fields of study. The study of architecture involves the synthesis of these areas of study and, in the program leading to the award of the BArch degree, the synthesis is achieved in the studio through the design projects included in the syllabus for Architectural Design — Specific, as set out in the schedule of subjects (see following pages).

Mandatory Subjects of the First Two Semesters

Students commencing their studies in architecture enrol in the BSc(DesStud)/BArch program (Course 3275) and undertake the following program of mandatory subjects in the first two semesters:

<table>
<thead>
<tr>
<th>Credit points</th>
</tr>
</thead>
</table>
First Semester | 25 |
11.4101 Principles of Design | 4 |
11.4301 Contextual Studies | 5 |
11.4401 Principles of Construction | 6 |
11.4402 Structures and Materials | 4 |
11.4601 Introduction to Communication | 6 |
Second Semester | 22 |
11.4201 Living Unit | 4 |
11.4303 Introduction to Architectural Science | 4 |
11.4307 History of Architecture and Design | 3 |
11.4403 Principles of Structures | 4 |
11.4510 Practice and Management | 2 |
11.4603 Graphic Communication | 5 |

Progression and Re-Enrolment

Re-enrolment is subject to normal University regulations which are set out in the Calendar. Subjects which have prerequisites may not be attempted until the appropriate prerequisite has been passed. In particular circumstances prerequisite requirements may be waived by the Head of School.

Honours

The Bachelor of Science (Design Studies) degree and the old Bachelor of Science (Architecture) degree may be awarded with Honours after completion of the BSc(DesStud) or the old BSc(Arch) Honours program, in accordance with

<table>
<thead>
<tr>
<th>Credit points</th>
</tr>
</thead>
</table>
Honours | 31 |
current Faculty regulations. Honours are Class 1 or Class 2 Division 1 or Class 2 Division 2.

The Bachelor of Architecture degree may be awarded with Honours based upon the quality of performance in the course and in accordance with current Faculty regulations. Honours are Class 1 or Class 2 Division 1 or Class 2 Division 2.

Registration and Professional Recognition

Only students enrolled in the BSc(DesStud)/BArch program (Course 3275) or the BArch program (Course 3280) are eligible to become Student Members of the Royal Australian Institute of Architects.

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. In addition, to become registered the candidate must satisfy the following requirements:

1. produce evidence of two years’ approved practical experience, at least one of which has been subsequent to successful completion of the course; and
2. pass a special examination in Architectural Practice.

Graduates with two years’ approved practical experience, at least one of which is subsequent to completion of the course, are eligible for Associate Membership of the Royal Australian Institute of Architects.

The foregoing is a general statement, and students are strongly advised to obtain further particulars from the RAISA and the Board of Architects of New South Wales.

Courses 3275, 3280 and 3295: Schedule of Subjects

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Architectural Design — General</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Core Subjects</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4101</td>
<td>Principles of Design</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>11.4102</td>
<td>Design Theory 1</td>
<td>5</td>
<td>11.4101, 11.4201</td>
</tr>
<tr>
<td>11.4103</td>
<td>Design Theory 2</td>
<td>5</td>
<td>11.4102</td>
</tr>
<tr>
<td></td>
<td>Elective Subjects</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4120</td>
<td>Design Theory 3</td>
<td>4</td>
<td>11.4103</td>
</tr>
<tr>
<td>11.4121</td>
<td>Theory of Form</td>
<td>4</td>
<td>11.4103</td>
</tr>
<tr>
<td>11.4124</td>
<td>Geometry &amp; Design</td>
<td>4</td>
<td>11.4103</td>
</tr>
<tr>
<td>11.4125</td>
<td>Interior Design 1</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>11.4126</td>
<td>Interior Design 2</td>
<td>4</td>
<td>11.4125</td>
</tr>
<tr>
<td>11.4127</td>
<td>Design for Conservation</td>
<td>4</td>
<td>11.4304, 11.4414</td>
</tr>
<tr>
<td>11.4128</td>
<td>Computer-Aided Design</td>
<td>6</td>
<td>11.4632</td>
</tr>
<tr>
<td>11.4129</td>
<td>Research &amp; Survey Methods</td>
<td>4</td>
<td>11.4103</td>
</tr>
<tr>
<td>11.4130</td>
<td>Criticism &amp; Evaluation</td>
<td>4</td>
<td>11.4103</td>
</tr>
<tr>
<td>11.4131</td>
<td>Principles of Dwellings</td>
<td>3</td>
<td>11.4102</td>
</tr>
<tr>
<td>11.4132</td>
<td>Synthesis</td>
<td>3</td>
<td>11.4103</td>
</tr>
<tr>
<td>11.4133</td>
<td>Imagination</td>
<td>3</td>
<td>11.4103, 117 credit points</td>
</tr>
<tr>
<td>11.4134</td>
<td>Mind and Architecture</td>
<td>3</td>
<td>11.4103</td>
</tr>
<tr>
<td>11.4135</td>
<td>Spirit and Architecture</td>
<td>3</td>
<td>11.4133 or 11.4134 or 11.4122</td>
</tr>
</tbody>
</table>

Architectural Design — Specific

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4201</td>
<td>Living Unit</td>
<td>4</td>
<td>nil</td>
</tr>
</tbody>
</table>
### Architectural Design — Specific (continued)

#### Group A

**one subject compulsory**. A student who has passed a Group A subject may take another Group A as an elective before proceeding to Group B.

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4211</td>
<td>Cultural Facilities 1</td>
<td>6</td>
<td>11.4102, 11.4303, 11.4401, 11.4403</td>
</tr>
<tr>
<td>11.4212</td>
<td>Commercial Facilities 1</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>11.4213</td>
<td>Health and Welfare Facilities 1</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>11.4214</td>
<td>Educational Facilities 1</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

#### Group B

**one subject compulsory**, the others may be taken as electives except by students who have passed subjects in both groups C and D.

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4221</td>
<td>Detached Houses</td>
<td>6</td>
<td>one from Group A, 11.4414</td>
</tr>
<tr>
<td>11.4222</td>
<td>Group Dwellings</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

#### Group C

**one subject compulsory**, the others may be taken as electives.

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4230</td>
<td>Community Facilities 2*</td>
<td>12</td>
<td>one from Group B, 11.4103, 11.4408</td>
</tr>
<tr>
<td>11.4231</td>
<td>Commercial Facilities 2</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>11.4232</td>
<td>Industrial Facilities</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>11.4233</td>
<td>Health and Welfare Facilities 2</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>11.4234</td>
<td>Government Facilities 1</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

#### Group D

**one subject compulsory**, the others may be taken as electives.

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4241</td>
<td>Urban Housing</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>11.4242</td>
<td>Low-Cost Housing</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>11.4243</td>
<td>Tourist Facilities</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>11.4244</td>
<td>Housing for Special Climates</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

#### Group E

**one subject compulsory**, the others may be taken as electives.

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4250</td>
<td>Community Facilities 3***</td>
<td>16</td>
<td>one from Group D and one from Group C, each at Credit grade or better</td>
</tr>
<tr>
<td>11.4251</td>
<td>Educational Facilities 2</td>
<td>8</td>
<td>one from Group D, one from Group C, plus 11.4345 or 36.411 for 11.4254 and 11.4256 and 11.4123 for 11.4257</td>
</tr>
<tr>
<td>11.4252</td>
<td>Government Facilities 2</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>11.4253</td>
<td>Cultural Facilities 2</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>11.4254</td>
<td>Urban Development</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>11.4255</td>
<td>Recreational Facilities</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>11.4256</td>
<td>Transport Buildings</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>11.4257</td>
<td>Ecclesiastical Architecture</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

*A student who has not previously passed any subject in Group C is, on passing 11.4230, awarded 6 core credit points and 6 elective credit points. A student who has previously passed one or more subjects in Group C is, on passing 11.4230 awarded 12 elective credit points.

**A student who has not previously passed any subject in Group D is, on passing 11.4240, awarded 6 core credit points and 6 elective credit points. A student who has previously passed one or more subjects in Group D is, on passing 11.4240 awarded 12 elective credit points.

***A student who has not previously passed any subject in Group E is, on passing 11.4250, awarded 8 core credit points and 8 elective credit points. A student who has previously passed one or more subjects in Group E is, on passing 11.4250 awarded 16 elective credit points.*
<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Architectural Environment</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Core Subjects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4301</td>
<td>Contextual Studies</td>
<td>5</td>
<td>nil</td>
</tr>
<tr>
<td>11.4303</td>
<td>Introduction to Architectural Science</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>11.4304</td>
<td>Thermal Design of Buildings</td>
<td>3</td>
<td>11.4303</td>
</tr>
<tr>
<td>11.4305</td>
<td>Lighting of Buildings</td>
<td>3</td>
<td>11.4303</td>
</tr>
<tr>
<td>11.4306</td>
<td>Acoustics of Buildings</td>
<td>3</td>
<td>11.4303</td>
</tr>
<tr>
<td>11.4307</td>
<td>History of Architecture and Design</td>
<td>3</td>
<td>nil</td>
</tr>
<tr>
<td>11.4308</td>
<td>Western Architecture</td>
<td>3</td>
<td>11.4307</td>
</tr>
<tr>
<td>11.4309</td>
<td>Australian Architecture</td>
<td>3</td>
<td>11.4308</td>
</tr>
<tr>
<td>36.411</td>
<td>Town Planning</td>
<td>2</td>
<td>11.4308, 94 credit points</td>
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<tr>
<td></td>
<td><strong>Elective Subjects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4320</td>
<td>Geometry</td>
<td>3</td>
<td>nil</td>
</tr>
<tr>
<td>11.4321</td>
<td>Physics</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>11.4322</td>
<td>Solar Energy</td>
<td>2</td>
<td>11.4304</td>
</tr>
<tr>
<td>11.4323</td>
<td>Room Acoustics</td>
<td>2</td>
<td>11.4306</td>
</tr>
<tr>
<td>11.4325</td>
<td>Tropical Architecture</td>
<td>2</td>
<td>11.4303</td>
</tr>
<tr>
<td>11.4326</td>
<td>Acoustics Studies</td>
<td>4</td>
<td>11.4323</td>
</tr>
<tr>
<td>11.4327</td>
<td>Lighting Research</td>
<td>4</td>
<td>11.4324</td>
</tr>
<tr>
<td>11.4329</td>
<td>The Design of Lighting</td>
<td>4</td>
<td>11.4305, one from Design Specific, Group A</td>
</tr>
<tr>
<td>11.4330</td>
<td>Modern Architecture</td>
<td>2</td>
<td>11.4308</td>
</tr>
<tr>
<td>11.4331</td>
<td>The Australian House since 1900</td>
<td>2</td>
<td>11.4309</td>
</tr>
<tr>
<td>11.4332</td>
<td>Historical Research A</td>
<td>3</td>
<td>11.4309, 130 credit points</td>
</tr>
<tr>
<td>11.4333</td>
<td>Historical Research B</td>
<td>3</td>
<td>11.4309, 130 credit points</td>
</tr>
<tr>
<td>11.4334</td>
<td>Historical Research C</td>
<td>3</td>
<td>11.4309, 130 credit points</td>
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<tr>
<td>11.4335</td>
<td>Eastern Architecture</td>
<td>2</td>
<td>11.4307</td>
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<tr>
<td>11.4336</td>
<td>Measured Studies of Historic Structures</td>
<td>3</td>
<td>11.4308, 11.4603</td>
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<tr>
<td>11.4339</td>
<td>Introduction to Building Conservation</td>
<td>5</td>
<td>11.4309, 11.4414</td>
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<tr>
<td>11.4340</td>
<td>Cognition &amp; Behaviour A</td>
<td>3</td>
<td>11.4301</td>
</tr>
<tr>
<td>11.4341</td>
<td>Cognition &amp; Behaviour B</td>
<td>3</td>
<td>11.4340</td>
</tr>
<tr>
<td>11.4342</td>
<td>Transport Systems</td>
<td>4</td>
<td>36.411</td>
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<tr>
<td>11.4343</td>
<td>Urban Planning</td>
<td>4</td>
<td>36.411</td>
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<tr>
<td>11.4344</td>
<td>Landscape Planning</td>
<td>4</td>
<td>11.4303</td>
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<tr>
<td>11.4345</td>
<td>Urbanism</td>
<td>2</td>
<td>11.4309</td>
</tr>
<tr>
<td>11.4346</td>
<td>Australian House (Measured Drawing)</td>
<td>2</td>
<td>11.4331</td>
</tr>
<tr>
<td>11.4347</td>
<td>Australian House (Report)</td>
<td>2</td>
<td>11.4331</td>
</tr>
<tr>
<td></td>
<td><strong>Technology</strong></td>
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<tr>
<td></td>
<td><strong>Core Subjects</strong></td>
<td></td>
<td></td>
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<tr>
<td>11.4401</td>
<td>Principles of Construction</td>
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<td>nil</td>
</tr>
<tr>
<td>11.4402</td>
<td>Structures &amp; Materials</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>11.4403</td>
<td>Principles of Structures</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>11.4407</td>
<td>Services A</td>
<td>3</td>
<td>11.4303, 11.4414</td>
</tr>
<tr>
<td>11.4408</td>
<td>Services B</td>
<td>3</td>
<td>11.4304, 11.4415</td>
</tr>
<tr>
<td>11.4414</td>
<td>Construction A</td>
<td>5</td>
<td>11.4401, 11.4402</td>
</tr>
<tr>
<td>11.4415</td>
<td>Construction B</td>
<td>5</td>
<td>11.4414, 11.4416</td>
</tr>
<tr>
<td>11.4416</td>
<td>Structures</td>
<td>4</td>
<td>11.4402, 11.4403</td>
</tr>
<tr>
<td></td>
<td><strong>Elective Subjects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4420</td>
<td>Technology for Low-rise Buildings</td>
<td>5</td>
<td>11.4414</td>
</tr>
<tr>
<td>11.4421</td>
<td>Technology for High-rise Buildings</td>
<td>5</td>
<td>11.4415</td>
</tr>
<tr>
<td>No.</td>
<td>Subject Name</td>
<td>Credit Points</td>
<td>Prerequisites</td>
</tr>
<tr>
<td>------</td>
<td>--------------------------------------</td>
<td>---------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>11.4422</td>
<td>Technology for Low-cost Housing</td>
<td>5</td>
<td>11.4416</td>
</tr>
<tr>
<td>11.4423</td>
<td>Rationalized Building Systems</td>
<td>5</td>
<td>11.4415</td>
</tr>
<tr>
<td>11.4424</td>
<td>Const. Planning &amp; Management</td>
<td>3</td>
<td>11.4407, 11.4408</td>
</tr>
<tr>
<td>11.4425</td>
<td>Earth Construction A</td>
<td>3</td>
<td>11.4402, 11.4303</td>
</tr>
<tr>
<td>11.4426</td>
<td>Earth Construction B</td>
<td>3</td>
<td>11.4425</td>
</tr>
<tr>
<td>11.4430</td>
<td>Integration of Services</td>
<td>4</td>
<td>11.4407, 11.4408</td>
</tr>
<tr>
<td>11.4440</td>
<td>Building Materials A</td>
<td>2</td>
<td>11.4414</td>
</tr>
<tr>
<td>11.4441</td>
<td>Building Materials B</td>
<td>5</td>
<td>11.4440</td>
</tr>
<tr>
<td>11.4450</td>
<td>Advanced Structural Analysis</td>
<td>4</td>
<td>11.4416, 11.4602</td>
</tr>
<tr>
<td>11.4451</td>
<td>Advanced Structural Design</td>
<td>4</td>
<td>11.4415</td>
</tr>
<tr>
<td>11.4452</td>
<td>Models Analysis &amp; Form-finding</td>
<td>3</td>
<td>11.4403</td>
</tr>
<tr>
<td>11.4453</td>
<td>Surface &amp; Spatial Structures A</td>
<td>5</td>
<td>11.4416</td>
</tr>
<tr>
<td>11.4454</td>
<td>Surface &amp; Spatial Structures B</td>
<td>5</td>
<td>11.4453</td>
</tr>
<tr>
<td>11.4455</td>
<td>Technology Research A</td>
<td>5</td>
<td>11.4416, 140 credit points</td>
</tr>
<tr>
<td>11.4456</td>
<td>Technology Research B</td>
<td>5</td>
<td>11.4455</td>
</tr>
<tr>
<td>11.4457</td>
<td>Workshop Practice</td>
<td>1</td>
<td>nil</td>
</tr>
<tr>
<td>11.4458</td>
<td>Construction Documentation</td>
<td>5</td>
<td>11.4407, 11.4415</td>
</tr>
</tbody>
</table>

### Practice

**Core Subjects**

- 11.4510 Practice and Management: 2 credits (nil prerequisites)
- 11.4511 Building Economics and Specifications: 3 credits (11.4414, 11.4510)
- 11.4512 Contract Administration A: 2 credits (11.4414, 11.4510)
- 11.4513 Contract Administration B: 2 credits (11.4512, 117 credit points)
- 11.4514 Management for Architects: 2 credits (11.4513, 11.4703)

**Elective Subjects**

- 11.4520 Management Systems & Finance: 2 credits (11.4514)
- 11.4521 Documentation: 3 credits (11.4511)
- 11.4522 Building Economics & Development: 3 credits (11.4511)
- 11.4524 The Architect and the Law: 2 credits (11.4513)
- 11.4525 Project Management: 3 credits (11.4513)
- 11.4526 Industrial Relations: 2 credits (11.4512)

### Communication

**Core Subjects**

- 11.4601 Introduction to Communication: 6 credits (nil prerequisites)
- 11.4602 Introduction to Computing: 2 credits (nil prerequisites)
- 11.4603 Graphic Communication: 5 credits (nil prerequisites)
- 11.4604 Graphic Communication Theory: 4 credits (11.4601)

**Elective Subjects**

- 11.4620 Presentation Graphics: 3 credits (11.4603, 11.4604)
- 11.4621 Oral & Written Communication: 2 credits (11.4601)
- 11.4622 Spatial Communication: 2 credits (nil prerequisites)
- 11.4623 Models & Materials: 3 credits (nil prerequisites)
- 11.4624 Architectural Photography: 3 credits (nil prerequisites)
- 11.4625 Constructional Geometry: 3 credits (11.4603, one from Design Specific, Group A)
- 11.4626 Architectural Ceramics & Sculpt.: 3 credits (nil prerequisites)
- 11.4628 Contemporary Styles in Art: 4 credits (11.4629)
- 11.4629 Graphic Art: 4 credits (11.4604)
### Courses 3275, 3280 and 3295: Schedule of Subjects (continued)

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4631</td>
<td>Advanced Graphic Concepts</td>
<td>4</td>
<td>11.4629 or 11.4620</td>
</tr>
<tr>
<td>11.4632</td>
<td>Computer Programming and Graphics</td>
<td>6</td>
<td>11.4602, 94 credit points Excluded 11.4627 (1982 or earlier)</td>
</tr>
<tr>
<td>11.4633</td>
<td>Architectural Drawing and Rendering</td>
<td>4</td>
<td>11.4603, one from Design Specific, Group A</td>
</tr>
<tr>
<td>11.4634</td>
<td>Drawing</td>
<td>4</td>
<td>11.4601, 11.4603</td>
</tr>
<tr>
<td>11.4635</td>
<td>Painting</td>
<td>4</td>
<td>11.4601, 11.4603</td>
</tr>
<tr>
<td>11.4636</td>
<td>Computer-aided Drafting</td>
<td>4</td>
<td>140 credit points</td>
</tr>
</tbody>
</table>

### Other Required Studies

**BSc(DesStud) Degree Course at Pass Level**

- 11.4701 Graduation Project: 8, 117 credit points
- General Studies Subjects: 6

**BSc(DesStud) Degree Course at Honours Level**

- 11.4705 Honours Project: 26, 140 credit points

**BArch Degree Course**

- 11.4703 Practical Experience: nil, 117 credit points
- 11.4707 Research Methods*: 2, 140 credit points
- 11.4708 Dissertation*: 10, 11.4707
- General Studies Subjects: 12

*From Session 1, 1984, 11.4707 Research Methods and 11.4708 Dissertation replace 11.4702 Thesis as a compulsory requirement of Course 3280 for all students except for those who have had their Thesis topic approved prior to Session 1, 1984. These students may, with the permission of the Head of School, elect to enrol in 11.4702 Thesis as an alternative to 11.4707 and 11.4708. Students enrolling in 11.4332 Historical Research A have the option of extending their work in 11.4332, 11.4333 and 11.4334 into the existing subject 11.4702 Thesis.*

### Other Elective Studies

- 11.4702 Thesis: 12, 140 credit points
- 11.4704 Architectural Research: 4, 140 credit points
- 11.4706 Architecture Graduation Project: 20, 187 credit points. Selection on merit
- 11.4720 Appropriate Technology 1: 3, 40 credit points including 11.4301, 11.4303, 11.4402
- 11.4721 Appropriate Technology 2: 4, 11.4720
- 11.4722 Appropriate Technology 3: 10, 94 credit points including 11.4721, 11.4457
- 11.4730 Industrial Archaeology 1: 4, 11.4730
- 11.4731 Industrial Archaeology 2: 4, 11.4730
- 11.4732 Traditional Technology 1: 4, 11.4732
- 11.4733 Traditional Technology 2: 5, 11.4732
- 11.4734 Traditional Building Technology: 4, 11.4732
- 11.4735 Traditional Technologies of Pakistan: 4, 11.4732
- 11.4736 Traditional Technology 3: 10, 11.4402, 11.4733, 11.4734 or 11.4735
- 11.4740 Industrial Design 1: 6, 40 credit points
- 11.4741 Industrial Design Methods A: 2, nil
- 11.4742 Industrial Design Methods B: 5, 11.4740, 11.4741
- 11.4743 Industrial Design Case Histories: 2, 11.4740, 11.4741
- 11.4744 Industrial Design 2: 7, 11.4740
- 11.4745 Industrial Design 3A: 10, 11.4742, 11.4743, 11.4744
- 11.4746 Industrial Design 3B: 10, 11.4742, 11.4743, 11.4744
- 11.4747 Industrial Design Special Project: 10, 140 credit points. Selection on merit
- 11.4750 Pottery and Ceramics: 5, 11.4402
- 11.4751 History of Ceramics: 4, 11.4307
- 11.4752 Pottery and Ceramic Technology A: 5, 11.4402 and either 11.4750 or 11.4626
- 11.4753 Ceramic Kilns: 10, 11.4752
- 11.4754 Pottery Management: 10, 11.4752
- 11.4755 Pottery and Ceramic Technology B: 5, 11.4402 and either 11.4750 or 11.4626
Undergraduate Study

Department of Industrial Arts

Acting Head of Department
Dr W. R. Lawson

The Department of Industrial Arts offers a BSc(IndArts) DipEd course (3320) available through full-time study in the general field of Industrial Arts. The subjects required to qualify for the degree are set out below. This course was discontinued from 1982 and no new students may be enrolled. Students already enrolled may continue with their studies until completion of the degree.

Students who wish to pursue their studies in Industrial Arts at graduate level may apply to enrol in the Master of Science and Doctor of Philosophy degree courses (by research) offered by the School of Architecture.

3310 Industrial Arts Course — Full-time
Bachelor of Science BSc

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

3320 Industrial Arts Course — Full-time
Bachelor of Science (Industrial Arts)/Diploma in Education BSc(IndArts) DipEd

This course was discontinued from 1982 and no new students may be enrolled. Students already enrolled may continue with their studies until completion of the degree. Students should consult pages 37 and 38 of the 1984 Architecture Faculty handbook for details of this course.

Industrial Arts Course — Part-time
Bachelor of Science (Technology) BSc

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

School of Building

Head of School
Professor A. R. Toakley

Undergraduate Course Co-ordinator
Mr D. N. Hassall

Administrative Assistant
Lyn Forsyth

Building Degree Course
BBuild

This course prepares students for professional and executive employment within one of Australia’s largest industries, the building industry. Careers in a wide variety of areas, in both private enterprise and in the public sector are available to building graduates. More specifically, these include positions as project manager, construction manager, master builder, construction consultant, building surveyor, building estimator, quantity surveyor, building economist, property manager and building scientist.

General Description of the Course

The course is offered on a semester basis. Students are required to complete a minimum of eight semesters (sessions) including one semester of appropriate industry experience.

The course leads to the award of the degree of Bachelor of Building (BBuild).

Credit Points

To qualify for a Bachelor of Building degree a student must have obtained a minimum of 196 credit points (including 158 credit points from compulsory subjects offered by the School of Building and 10 credit points of General Studies subjects). Credit points are allocated to all compulsory and elective subjects.

Provided that they can satisfy the prerequisite requirements for subjects to be attempted, students may choose that pattern and order of subjects which best suits individual requirements. Credit points generally correspond to work load in subjects. A maximum of 12 elective points may be obtained by passing approved subjects offered by other schools in the University.

Attention is drawn to the fact that Physics and Mathematics are included among the compulsory subjects. It is highly desirable that intending students have successfully completed these subjects at HSC level.

Practical Experience

Students are required to be in employment related to their course during at least six months of their program. In this period they must be formally enrolled in 35.910 Industry Semester. The proposal for employment must be submitted to the Professor of Building for approval. See Undergraduate Study: Subject Descriptions for details.
Award of the Degree at Honours Level

Honours are awarded on the basis of the quality of student performance in the subjects of the course and in the thesis.

Professional Recognition

The award of the degree, Bachelor of Building, is recognized for admission to membership by: (1) the Australian Institute of Building; and (2) the Australian Institute of Quantity Surveyors, subject to completion of the following:

- 35.813 Quantity Surveying 3
- 35.833 Building Economics 3
- 35.506 Construction 6
- 35.507 Construction 7
- 35.580 Building Design Analysis
- 35.720 Commercial Arbitration

Elective Subjects

- 35.506 Construction 6 (Techniques) 4
- 35.517 Construction 7 (Industrialization and Technological Change) 4
- 35.518 Construction 8 (Special Project) 4
- 35.580 Building Design Analysis 3
- 35.592 Built Environment 2 2

Building Science Stream

Compulsory Subjects

- 1.931 Physics 1 (Building) 4 nil
- 35.601 Building Science (Materials) 4 nil
- 35.602 Building Science 2 (Energy) 5 1.931
- 35.605 Building Science 5 (Concrete) 3 nil
- 35.606 Building Science 6 (Metals) 3 nil
- 35.651 Services 1 (Hydraulics) 3 nil
- 35.652 Services 2 (Mechanical) 3 35.602
- 35.670 Mathematics for Builders 4 nil

Elective Subjects

- 35.604 Building Science 4 (Plastics) 3 nil
- 35.607 Building Science 7 (Thermal) 3 35.602
- 35.609 Building Science 9 (Timber) 3 nil
- 35.653 Services 3 (Integration) 4 35.651, 35.652

Management Studies Stream

Compulsory Subjects

- 35.701 Management 1 (Management Principles) 4 nil
- 35.702 Management 2 (Professional Practice) 4 35.701
- 35.703 Management 3 (Planning) 4 35.502, 35.603 or 35.751, 35.702
- 35.704 Management 4 (Contracts, Site Administration) 4 35.703
- 35.705 Management 5 (Project Management) 4 35.704
- 35.707 Management 7 (Corporate Strategy) 4 35.704, 35.832 or 35.842

Schedule of Subjects

Construciton Studies Stream

Compulsory Subjects

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
<th>Prerequisites</th>
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<tr>
<td>29.411</td>
<td>Surveying for Architects and Builders</td>
<td>2</td>
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<tr>
<td>35.202</td>
<td>Soil Mechanics for Building</td>
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<td>35.500</td>
<td>Building Graphics</td>
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<tr>
<td>35.501</td>
<td>Construction 1 (Domestic Buildings)</td>
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<tr>
<td>35.502</td>
<td>Construction 2 (Building Practice)</td>
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<tr>
<td>35.503</td>
<td>Construction 3 (Low-rise Buildings)</td>
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</tr>
<tr>
<td>35.504</td>
<td>Construction 4 (Factory Buildings)</td>
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<td>35.503</td>
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<tr>
<td>35.505</td>
<td>Construction 5 (High-rise Buildings)</td>
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### Undergraduate Study

<table>
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<tbody>
<tr>
<td>35.721</td>
<td>Law for Builders 1</td>
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<tr>
<td>35.722</td>
<td>Law for Builders 2</td>
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<td>35.721</td>
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<tr>
<td>35.751</td>
<td>Introduction to Computing</td>
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<tr>
<td>35.752</td>
<td>Computer Applications in Building</td>
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### Elective Subjects

<table>
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<tr>
<td>35.706</td>
<td>Management 6 (Personnel Management)</td>
<td>4</td>
<td>35.704</td>
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<tr>
<td>35.708</td>
<td>Management 8 (Marketing)</td>
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<td></td>
<td></td>
<td>35.832 or</td>
</tr>
<tr>
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<td>35.842</td>
</tr>
<tr>
<td>35.720</td>
<td>Commercial Arbitration</td>
<td>4</td>
<td>35.704</td>
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<tr>
<td>35.753</td>
<td>Systems Analysis and Modelling</td>
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<td>35.754</td>
<td>Building Information Systems</td>
<td>4</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>35.603 or</td>
</tr>
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### Building Economics Stream

#### Compulsory Subjects

<table>
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<tbody>
<tr>
<td>14.001</td>
<td>Introduction to Accounting A</td>
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<tr>
<td>14.002</td>
<td>Introduction to Accounting B</td>
<td>2</td>
<td>14.001</td>
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<tr>
<td>35.801</td>
<td>Quantity Surveying 1</td>
<td>4</td>
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</tr>
<tr>
<td>35.802</td>
<td>Quantity Surveying 2</td>
<td>4</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>35.870 or</td>
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<tr>
<td></td>
<td></td>
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<td>35.871</td>
</tr>
<tr>
<td>35.831</td>
<td>Building Economics 1</td>
<td>4(3)*</td>
<td>nil</td>
</tr>
<tr>
<td>35.832</td>
<td>Building Economics 2</td>
<td>4(3)*</td>
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<td>35.867</td>
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<td>35.871</td>
<td>Building Specifications</td>
<td>3(2)*</td>
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<td>Development Project</td>
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<td>35.842</td>
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</table>

*Credit points shown in brackets are the old values which will be credited to those students first enrolled prior to 1984 and who require 192 points to qualify for their degree.

#### Elective Subjects

<table>
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<tr>
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<td>Building Economics 3</td>
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<td>35.890</td>
<td>Property Valuation</td>
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<td>35.831 or</td>
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### Others

#### Compulsory Subjects

<table>
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<th>Prerequisites</th>
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<tbody>
<tr>
<td>35.900</td>
<td>Thesis</td>
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<td>100 credit points</td>
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<td>35.910</td>
<td>Industry Semester*</td>
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<tr>
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<td>nil</td>
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</table>

*This subject must not be taken in final semester. It must be taken at a stage which will enable students to subsequently complete a minimum of 12 credit points, apart from any credit points obtained for 35.900 Thesis.

General Studies subjects totalling 10 credit points are compulsory. Two credit points are awarded for Half Electives (28 hours) and four credit points are awarded for Full Electives (56 hours). The subjects are to be selected from the list of General Studies electives available in the General Studies handbook.

### School of Landscape Architecture

#### Head of School

Professor R. Clough

### Landscape Architecture Degree Course

**BLArch**

Landscape Architecture is a professional discipline which is based on an understanding of the natural sciences. Graduates will be able to share in mankind's responsibility towards the environment.

Landscape in its broadest sense encompasses all external spaces comprising natural topography and vegetation as well as modified environments constructed for man's enjoyment or comfort. Opportunities for graduates to contribute professional advice vary in scale through the design of domestic gardens, urban plazas and thoroughfares, regional parks and new cities to national considerations of land use and environmental policies. Creative design ability, based on an appreciation of natural systems and man's requirements can bring about management plans for natural areas or the planned modification of areas to provide external spaces which are both practical and enjoyable.

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. Programs are related to the subject matter of concurrent lectures, and culminate in an examination of landscape problems of regional and national significance.

General Description of the Course
The course requires full-time attendance of approximately 21 hours per week over at least four years.

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 Botany, Geography and Town Planning, and the Department of General Studies.

Practical Experience
Students of the undergraduate course must obtain a total of four months’ practical experience prior to graduation, of which a minimum of two months must be in a design office and a minimum of two months must be in outdoor work. This normally takes the form of employment during long vacations under a landscape architect, landscape contractor or nurseryman. Each student entering upon practical experience must obtain prior approval of the Professor of Landscape Architecture or his nominee. Each student must obtain from the employer a statement of experience gained, maintain an accurate record in log-book form and submit a written report describing the work undertaken during the various practical experience components. This practical experience must be obtained prior to enrolling in 37.7418 Professional Practice 4.

Honours
The Bachelor of Landscape Architecture degree may be awarded with Honours based upon the quality of performance in the course and in accordance with current Faculty regulations. Honours are Class 1 or Class 2 Division 1 or Class 2 Division 2.

Professional Recognition
The course is recognized by the Australian Institute of Landscape Architects and graduates holding the BLArch degree will qualify for corporate membership after a specified period of graduate experience and formal examination.

3380
Landscape Architecture Course
Bachelor of Landscape Architecture
BLArch

The course structure shown below represents the normal pattern of progression which students entering course 3380 are expected to follow. In exceptional circumstances the Head of School may allow variation of the normal pattern, and in such cases progression in individual subjects will be governed by the prerequisites as indicated.

A student may be enrolled concurrently in the subjects of only two consecutive years, but this will not apply to students entering with advanced standing in their first year of attendance or to modifications of the course which are initiated by the School.

Students are required to participate in field exercises and practical construction programs outside the metropolitan area.

Note: Due to recent revision of the course, some special arrangements may be necessary in 1986.

Schedule of Subjects

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Hours Per Week</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Session 1</td>
<td></td>
<td></td>
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<tr>
<td>27.818</td>
<td>Australian Environment and Human Response*</td>
<td>4</td>
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<tr>
<td>37.0001</td>
<td>Introduction to Landscape Architecture</td>
<td>1</td>
<td>nil</td>
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<tr>
<td>37.3101</td>
<td>Landscape Graphics 1</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>37.5101</td>
<td>Design 1</td>
<td>3</td>
<td>nil</td>
</tr>
<tr>
<td>37.7101</td>
<td>Landscape Technology 1*</td>
<td>2</td>
<td>nil</td>
</tr>
<tr>
<td>43.202</td>
<td>Botany for Landscape Architects</td>
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<td>General Studies Elective</td>
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<tr>
<td></td>
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</table>
## Schedule of Subjects (continued)

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
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<tbody>
<tr>
<td></td>
<td>Session 2</td>
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<tr>
<td>37.1102</td>
<td>Horticulture for Landscape Architects</td>
<td>3</td>
<td>43.202</td>
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<tr>
<td>37.1202</td>
<td>Prehistory for Landscape Architects</td>
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<td>nil</td>
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<tr>
<td>37.1302</td>
<td>Landscape Analysis*</td>
<td>6</td>
<td>27.801, 43.202</td>
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<tr>
<td>37.3203</td>
<td>Landscape Graphics 2</td>
<td>4</td>
<td>37.3101</td>
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<td>Design 2</td>
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<td>37.7202</td>
<td>Landscape Technology 2</td>
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<td>General Studies Elective</td>
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</tbody>
</table>

|     | Year 2                                           |                |               |
|     | Session 1                                        |                |               |
| 37.1403 | History of Landscape Architecture                | 3              | nil           |
| 37.3303 | Landscape Graphics 3                             | 3              | 37.3202       |
| 37.5003 | Planting Design                                  | 3              | 37.1102       |
| 37.5303 | Landscape Design 1                               | 7              | 37.5202       |
| 37.7303 | Landscape Technology 3                           | 4              | 37.7202       |
|       | General Studies Elective                         | 2              |               |

|     | Session 2                                        |                |               |
| 37.0014 | Introduction to Computer Applications            | 2              | nil           |
| 37.1504 | Environmental Sociology for Landscape Architects| 3              | 37.1202       |
| 37.3404 | Landscape Graphics 4                             | 3              | 37.3303       |
| 37.5404 | Landscape Design 2                               | 9              | 37.5303       |
| 37.7404 | Landscape Technology 4                           | 3              | 37.7303       |
|       | General Studies Elective                         | 2              |               |

|     | Year 3                                           |                |               |
|     | Session 1                                        |                |               |
| 36.411  | Town Planning                                    | 2              | nil           |
| 37.5505 | Landscape Design 3                               | 8              | 37.3404, 37.5404, 37.7404 |
| 37.7115 | Professional Practice 1                          | 1½             | 37.5404, 37.7404 |
| 37.7505 | Landscape Engineering 1                          | 4              | 37.7404       |
| 37.9105 | Landscape Planning 1                             | 4              | 37.1504       |
|       | General Studies Elective                         | 2              |               |

*These subjects include a number of lectures and field trips for the purpose of practical observation. Students are expected to make their own transport arrangements for these trips.
Schedule of Subjects (continued)

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Hours Per Week</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td></td>
<td>Session 2</td>
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<tr>
<td>37.1606</td>
<td>Land Systems</td>
<td>3</td>
<td>37.5003</td>
</tr>
<tr>
<td>37.3006</td>
<td>Research Methods</td>
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<td>37.5606</td>
<td>Landscape Design 4</td>
<td>8</td>
<td>37.5505</td>
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<td>37.7216</td>
<td>Professional Practice 2</td>
<td>1½</td>
<td>37.7115</td>
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<td>37.7606</td>
<td>Landscape Engineering 2</td>
<td>2</td>
<td>37.7505</td>
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<td>37.9206</td>
<td>Landscape Planning 2</td>
<td>4</td>
<td>37.9105</td>
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<th>Year 4</th>
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<tbody>
<tr>
<td>Session 1</td>
<td>Land Management</td>
<td>2</td>
<td>37.1606</td>
</tr>
<tr>
<td>37.3007</td>
<td>Landscape Thesis</td>
<td>6</td>
<td>37.3006, 37.5606</td>
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<td>37.5707</td>
<td>Landscape Design 5</td>
<td>8</td>
<td>37.5606</td>
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<td>37.7317</td>
<td>Professional Practice 3</td>
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<td>37.7216</td>
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<td>37.9307</td>
<td>Landscape Planning 3</td>
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</tr>
<tr>
<td></td>
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</tbody>
</table>

| Session 2 | Landscape Thesis         | 4              | See Session 1 |
| 37.3007 | Landscape Design 4       | 12             | 37.5707       |
| 37.5808 | Professional Practice 4  | 1½             | 37.7317, four months practical experience |
| 37.7418 | Landscape Planning 4     | 4              | 37.9307       |
|        |                               | 21½            |                               |

The objective of the course is to create an awareness of the context in which planning operates, impart knowledge of how planning can influence the physical environment, equip students with the competence of applying this knowledge at different levels in a wide range of situations, create an understanding of the contribution other disciplines can make to planning and vice versa, and develop skills in policy formulation, land use allocation and control, design and communication.

School of Town Planning

Head of School
Professor H. L. Westerman

Town Planning Degree Course
BTP

Town planning is concerned with the existing and future environment, ranging from small local precincts, neighbourhoods, centres, districts and towns to metropolitan areas and regions. The town planner's task in this regard is to integrate and coordinate the aims and actions of a large number of government and private organizations and individuals. This involves collecting and analysing information, identifying needs, making forecasts, preparing policies, plans and programs for consultation, decision and implementation, exercising development control, and evaluating development proposals.

General Description of the Course

The course is of five years' duration and requires full-time attendance throughout Years 1, 2 and 5. Students are required to attend the University on a full-time basis for the first session of Year 3 and for the second session of Year 4, the intervening period being devoted to practical experience.

The course leads to the award of 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 course on the basis of quality of performance throughout the whole course and in accordance with current Faculty regulations.

For the purpose of calculating Honours at graduation, the Honours value of each subject is indicated by the credit points associated with that subject. Credit points generally reflect the workload required of students in subjects in which grades are awarded.

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.

3360
Town Planning Course
Bachelor of Town Planning
BTP

Schedule of Subjects

Note: A major planning subject is shown in each session in bolder type. Each of these subjects must be passed before a student may progress to the next year's major planning subjects.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Hours per week</th>
<th>Credit points for Honours</th>
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<tbody>
<tr>
<td>Session 1</td>
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<tr>
<td>36.211 Introduction to Planning</td>
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<tr>
<td>29.901 Introduction to Mapping</td>
<td>1½</td>
<td>2</td>
</tr>
<tr>
<td>36.134 Graphic Communication</td>
<td>4</td>
<td>4</td>
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<tr>
<td>36.453 History of Cities</td>
<td>2</td>
<td>3</td>
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<tr>
<td>36.243 Building and Land Development</td>
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<td>3</td>
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<td><strong>24</strong></td>
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<tr>
<td>36.212 Planning Studies</td>
<td>10</td>
<td>12</td>
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<tr>
<td>36.131 Communication Techniques</td>
<td>3</td>
<td>3</td>
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<td>36.222 Computers and Information Systems</td>
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<td>36.232 Environmental Science 1</td>
<td>2</td>
<td>4</td>
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<tr>
<td>36.242 Land Economy</td>
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<td>3</td>
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<table>
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<tr>
<th>Year 3</th>
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<th>Credit points for Honours</th>
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</thead>
<tbody>
<tr>
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<td></td>
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<tr>
<td>36.213 Local Planning 1</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>36.461 Engineering</td>
<td>4</td>
<td>5</td>
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<td>36.233 Environmental Science 2</td>
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<td>3</td>
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<tr>
<td>26.000 General Studies Elective</td>
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**Year 5**

**Session 1**

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Note: Due to the revision of the course, there is a transition period during which some subjects may be taught in different sessions than those indicated above, while other subjects may be phased in progressively. Details will be provided prior to enrolment.

*The following planning electives are offered subject to demand and availability. Students have the option to take half electives, provided the total time for planning electives (12 hours) is achieved.*

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Subject Descriptions

Identification of Subjects by Number

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

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

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

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

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

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

Servicing Subjects are those taught by a school or department outside its own faculty. Their subject descriptions are published in the handbook of the faculty which originates the subject and are also published in the handbook of the Faculty in which the subject is taught.

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

HSC Exam Prerequisites

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

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

Information Key

The following is the key to the information which may be supplied about each subject:
• S1 (Session 1); S2 (Session 2)
• F (Session 1 plus Session 2, ie full year)
• S1 or S2 (Session 1 or Session 2, ie choice of either session)
• SS (single session, but which session taught is not known at time of publication)
• CCH class contact hours
• L (Lecture, followed by hours per week)
• T (Laboratory/Tutorial, followed by hours per week)
• hpw (hours per week)
• C (Credit or Credit units)
• CR (Credit Level)
• DN (Distinction)
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Subjects also offered for courses in this handbook.

Page 46
1.931 Physics 1 (Building)  
S2 L4T2
4 credit points; compulsory. Prerequisites: nil.


For further information regarding the following subjects see the Faculty of Engineering Handbook.

Architecture

Architectural Design — General

11.4101 Principles of Design  
C4
Prerequisite: Nil.

The meaning of design as the process of designation for a purpose. Selection, making, art. The origin and cause of human aims in general. Motivations: need, desire, aspiration. Motivations affecting the field of architecture on the physical, mental and spiritual level. Introduction to aim-possibility-act-fulfilment, the four cornerstones of the design process. The meaning and role of analysis in the understanding and exploration of the above. The relationship between possibility and act: the principle of successive limitation. The design process and the physical and human context in which it is destined to fit. Practical studio projects in problem-solving exercises in two and three dimensions taken from all the disciplines of the built environment.

11.4102 Design Theory 1  
C5
Prerequisites: 11.4101, 11.4201.

Introduction to methodology, especially design methodology. Development of methodical analysis and research applied to the comprehension of design aims, possibilities and acts. Introduction to complete design methods in general and study of simple models followed by contemporary architects. Practical studio projects to apply design methods in problem-solving exercises leading to simple architectural synthesis.

11.4103 Design Theory 2  
C5
Prerequisite: 11.4102.

Development of systematic design processes; identification of different methods and their influences. Investigation and comparison of various tools and techniques, their respective limitations and suitability for problem types. Investigation of human sciences techniques and their application to the design process. Introduction to computer-aided design and more complex design systems. Introduction to problems of anticipation, user-participation, survey methods. Consideration of principles of composition and means of architectural expression. Practical studio projects to apply various design processes to projects leading to architectural synthesis.

11.4104 Design Theory 3  
C4
Prerequisite: 11.4103.

Advanced and specialized design-methods. Criteria of various decision theories. Cybernetics. Statistical methods. Linear and cyclic models of the process of synthesis, their evaluation and suitability to specific architectural tasks. Practical application centres on selected case studies.

11.4121 Theory of Form  
C4
Prerequisite: 11.4103.

The ontological basis and the antinomical qualities of form in the causal sense, reflected in nature, art and architecture. Practical investigation of the antinomical qualities of form with special emphasis on the brief and on the built fabric of contemporary architecture, and practical attempts to identify shortcomings and develop corrective measures.

11.4124 Geometry and Design  
C4
Prerequisite: 11.4103.

Geometrical principles determining spatial order and their application to architecture. Practical study is given to various geometrical systems ranging from simple pragmatic to complex cultural considerations.

11.4125 Interior Design 1  
C4
Prerequisite: Nil.

11.4126 Interior Design 2  
Prerequisite: 11.4125.

The nature of the 'inside'. History of interior design. Perception of space; physical mental and spiritual. The meaning of colour and shape. Colour psychology. Investigation of current interior design practice. Design studies applying current practice to a range of interior design situations.

11.4127 Design for Conservation  
Prerequisite: 11.4304, 11.4414.

The development of the design of buildings and building types incorporating technological means of energy conservation and generation, recycling of waste, use of energy-efficient materials, maintaining ecological balance and developing suitable structural techniques.

11.4128 Computer-Aided Design  
Prerequisite: 11.4632.

Advanced study of the application of computers to architectural design problems: review and further development of techniques for modelling buildings in computer memory; outline of mathematical optimization techniques and how these may be applied to architectural problem-solving; experience in the development of computer-based architectural design-aid tools.

11.4129 Research and Survey Methods  
Prerequisite: 11.4103.

Understanding the needs of users of buildings as well as those of the client. Regional and historical perspectives. Prognosis of future 'users'. Survey methods applied to user-research before and after the erection of the building. Practical exercises in user-research and survey.

11.4130 Criticism and Evaluation  
Prerequisite: 11.4103.

The nature, function and value of criticism. Subjective and objective criticism. A short history of architectural criticism, architectural critics, past and present. Discrimination and values in a changing society; fashion, the influence of mass opinion, communication media, advertising, propaganda. Collection of data; establishment and application of critical criteria; effective communication of conclusions; recommendations and feedback. The use of criticism and evaluation during and after the design process. Practical evaluation of examples of architectural criticism, past and present. Criticism of contemporary buildings and projects. Criticism of current work by self and others.

11.4131 Principles of Dwellings  
Prerequisite: 11.4102.

Examination of the different dwelling types and locational characteristics in the context of social, economic, political and legislative issues; the psycho-social aspects of dwelling types with reference to Australian traditions and experience; review of current practice and trends; demographic implications of socio-economic models; theoretical framework for the development of housing concepts, case studies and design exercises.

11.4132 Synthesis  
Prerequisite: 11.4103. Excluded: 11.4122.

A general theory of synthesis applied to architecture. The formal cause, the centre and the field. The 'central idea', the ordered priorities between the elements of the architectural synthesis. Discussion on limitation, conflict, balance, economy and prototypes. Seminars and practical projects focus on selected case studies.

11.4133 Imagination  
Prerequisites: 11.4103, 117 credit points. Excluded: 11.4123.

Architecture built in the image of the cosmic order and of the ideas directing that order. The nature of imagination, analogy and proportion. The meaning of number, of the elements of space and time and of the geometrical order, and this image in architecture. Seminars and practical projects focus on selected case studies.

11.4134 Mind and Architecture  
Prerequisite: 11.4103. Excluded: 11.4122.

The mental, as distinct from the physical needs influencing architecture. The faculties of the mind — instinct, emotion, perception, memory, reason and intention. Discussion of the architectural response to mental expectations in the historical and contemporary context. Seminars and practical projects focus on selected case studies.

11.4135 Spirit and Architecture  
Prerequisites: 11.4133 or 11.4134 or 11.4122. Excluded: 11.4123.

Spatial symbolism and intellectual intuition, principles and methods of sacred architecture. Spiritual doctrine reflected in the layout of Judaeo-Christian architecture with reference to the Architecture of sacred traditions. Seminars and practical projects focus on selected case studies.

Architectural Design — Specific

11.4201 Living Unit  
Prerequisite: Nil.

Analysis of the immediate built environment, to develop an awareness of man's need for shelter, and a deeper understanding of his functions, activities and requirements. Development of design skills through a series of studio exercises.

11.4211 Cultural Facilities 1  
Prerequisites: 11.4102, 11.4303, 11.4401, 11.4403.

Cultural attitudes in recent and contemporary Western Society. Cultural experience at participatory level in present-day society, and environmental requirements for small groups; overlaps with education and recreation in broadest sense. Includes design of studios, workshops and craft centres, small libraries, facilities for performance to small audiences, small galleries and exhibition spaces.
11.4212 Commercial Facilities 1
Prerequisites: 11.4102, 11.4303, 11.4401, 11.4403.
The principles and nature of all aspects of commercial activity. Features common to all commercial buildings, as appropriate to specific commercial buildings. Determining factors, psychological motivations, and market operators. Economic, technological and urban requirements; people, goods and services. The principles and design of small-scale commercial activity in a rural or suburban context.

11.4213 Health and Welfare Facilities 1
Prerequisites: 11.4102, 11.4303, 11.4401, 11.4403.
Public health and welfare; social theory and practice; function of buildings for health and welfare of infants, children, adults and aged, including the afflicted, sick and handicapped. Social security, funding and legislation. Simple institutions in the suburban context with emphasis on special anthropometrics, site selection and social interaction.

11.4214 Educational Facilities 1
Prerequisites: 11.4102, 11.4303, 11.4401, 11.4403.
The meaning of education; educational philosophies and their physical and architectural requirements. Child psychology, and psychology of play and learning. Case studies on child-minding centres, preschool kindergartens, infant and primary schools, open and special schools.

11.4221 Detached Houses
Prerequisites: One from Group A, 11.4414.
Comprehensive awareness of family housing needs and relation to natural environment, culminating in design of a family house to meet these needs. Historical development. Social, climatic, topographic and technological aspects; local and regional influences and international context. Case studies of significant examples of good design. Site and functional planning requirements; anthropometric, acoustic and visual parameters; community and privacy; development of brief between client/user/designer; growth, change and flexibility, construction, structure and services.

11.4222 Group Dwellings
Prerequisites: One from Group A, 11.4414.
Basic concepts of group housing, and analysis of user needs; advantages and disadvantages. Housing associations and community purposes. Case studies of selected examples. Design studies of simple groups in suburban and urban locations.

11.4230 Community Facilities 2
Prerequisites: One from Group B, 11.4103, 11.4408.
An extension of one, or a combination of two or more, of the subjects 11.4231, 11.4232, 11.4233 and 11.4234. Case studies and two design projects, or one project taken to an advanced stage of development.

11.4231 Commercial Facilities 2
Prerequisites: One from Group B, 11.4103, 11.4408.
The principles and nature of all aspects of commercial activity. Features common to all commercial buildings, and those appropriate to specific commercial buildings. Determining factors, psychological motivations, and market operations. Economic, technological and urban requirements; people, goods and services. Larger scale commercial activity in the urban context.

11.4232 Industrial Facilities
Prerequisites: One from Group B, 11.4103, 11.4408.
The principles and characteristics of industrial building design. History of the development of industrial building, current technology and design, and possible future developments. Planning of industrial estates. Design studies in development of industrial building types, ranging from simple projects to complex plants.

11.4233 Health and Welfare Facilities 2
Prerequisites: One from Group B, 11.4103, 11.4408.
Public health and welfare; social theory and practice, function of buildings for health and welfare of infants, children, adults and aged, including the afflicted, sick and handicapped. Social security, funding and legislation. More complex institutions in the urban context including housing for the aged, clinics and special facilities for the handicapped.

11.4234 Government Facilities 1
Prerequisites: One from Group B, 11.4103, 11.4408.
Design of public buildings by or for government agencies. Client/user/architect relationship in development of brief. Public facilities, institutions, government office buildings, public services of quasi-industrial type, etc. for Federal, State and Municipal government, statutory bodies and government undertakings. Case studies and design projects. This series deals with single buildings and groups.

11.4240 Residential Facilities 2
Prerequisites: One from Group B, 11.4103, 11.4415, 11.4407.
The implications for housing of different densities and purposes; government policies; life styles and traditions; social, technological, physical and cultural environmental requirements; cost analysis. Case studies and two design projects, or one project taken to an advanced stage of development.

11.4241 Urban Housing
Prerequisites: One from Group B, 11.4103, 11.4415, 11.4407.
The implications for urban housing of differing densities; advantages and disadvantages; characteristics common to medium- and high-density living. Determining factors: life styles and traditions, psychological motivations, economic, technological and urban requirements. Functional factors: constructional solutions, cost analysis, funding and staging, servicing, alternative housing types, overseas developments and future trends. Practical studies of urban housing design in the context of density, economics, social mix amenity, urban planning, etc.
11.4242 Low-Cost Housing  C6

Prerequisites: One from Group B, 11.4103, 11.4415, 11.4407.

History, sociology, economics and government policies for low-cost housing, in Australia and overseas, with special reference to developing countries; physical and cultural environment; local materials, labour, methods, skills, transport, etc.

11.4243 Tourist Facilities  C6

Prerequisites: One from Group B, 11.4103, 11.4415, 11.4407.

Development of the tourist industry, and trends in tourism; hotels and motels; recreational centres, and fitness camps; holiday camps and marinas; tourist facilities and accommodation in national parks, etc. Case studies and design projects.

11.4244 Housing for Special Climates  C6

Prerequisites: One from Group B, 11.4103, 11.4304, 11.4305, 11.4306, 11.4407, 11.4415.

Historical development of housing for special climates; traditional methods, indigenous forms, use of mechanical systems versus special design methods to combat heat, moisture, wind, etc; building materials and construction methods; structural systems and servicing. Case studies and design projects.

11.4250 Community Facilities  C16

Prerequisites: Credit grade or better in both one from Group C and one from Group D.

An extension of one, or a combination of two or more, of the subjects 11.4251, 11.4252, 11.4253 and 11.4255. Case studies and two design projects, or one project taken to full design resolution.

11.4251 Educational Facilities  C8

Prerequisites: One from Group C and one from Group D.

The meaning of education; educational philosophies and their physical and architectural requirements. Child psychology, and psychology of play and learning. Case studies on secondary and tertiary educational institutions, universities, colleges of advanced education, technical, private and specialist colleges, and adult education centres.

11.4252 Government Facilities  C8

Prerequisites: One from Group C and one from Group D.


11.4253 Cultural Facilities  C8

Prerequisites: One from Group C and one from Group D.

Cultural attitudes in recent and contemporary Western Society. Cultural experience at participatory level in present-day society, and environmental requirements for small groups; overlaps with education and recreation in broadest sense. Includes consideration of cultural activities at the regional, national and international levels. Culture, State and Society. Wider aspects of culture, and concern for quality, display, conservation and performance. Design studies includes auditoria for the performing arts; libraries and museums; art galleries; integrated educational and recreational facilities; exhibition complexes and conference centres.

11.4254 Urban Development  C8

Prerequisites: One from Group C and one from Group D, plus 11.4345 or 36.411.

The development of urban spaces and the resolution, by means of design studies, of diverse building requirements in an urban context, with reference to architectural and civic design, urban planning, transport, infrastructure, staging and implementation.

11.4255 Recreational Facilities  C8

Prerequisites: One from Group C and one from Group D.

Range of sporting codes and requirements for building facilities; stadia; swimming pools; athletic tracks; squash courts; golf clubs and other sporting clubs; recreational accommodation; ancillary buildings; landscaping; playing fields and sportsgrounds; structural and constructional systems. Case studies and design projects.

11.4256 Transport Buildings  C8

Prerequisites: One from Group C and one from Group D, plus 11.4345 or 36.411.

Characteristics of multi-modal transport systems in urban centres; development of transport technology; design standards; building requirements. Evaluation of transport interchange centres in the context of the total urban transport plan. Detailed planning requirements, vehicle criteria and environment constraints; case studies and projects to develop alternative strategies and design solutions for simple dual mode interchanges (bus/car, car/rail, bus/pedestrian) and for complex multimode interchanges in central urban areas (bus/rail/ferry, air/bus/rail, etc).

11.4257 Ecclesiastical Architecture  C8

Prerequisites: One from Group C and one from Group D, plus 11.4123.

The history, meaning and symbolism of Christian architecture as the image of Christian doctrine. The denominational differences in the emphasis of architectural layout. Ritual, functional and social requirements. Religious communities, their ideals, history, variety and pattern of life, with special emphasis on their architectural requirements. Practical application in designing churches, ecclesiastical precincts and buildings for religious communities.
Architectural Environment

11.4301 Contextual Studies C5
Prerequisite: Nil.
Introduction to spiritual, mental, physical, social and cultural needs of people. The environment and human influence upon it. Human needs, individually and in groups. Resources of energy and materials and their utilization. The design professions; architecture and building; landscape architecture and town planning, engineering, industrial design, and the arts and crafts. Seminars and projects.

11.4303 Introduction to Architectural Science C4
Prerequisite: Nil.
Environmental design methods for total human comfort; climate and its effects in and around buildings; geometry of sunlight, sun control; introduction to thermal, lighting and acoustical design; basic concepts, subjective appraisals and measurement. Laboratory work and projects.

11.4304 Thermal Design of Buildings C3
Prerequisite: 11.4303.
Thermal comfort, comfort indices; state heat transfer, solar heat gain; air movements; thermal storage effects; condensation and vapour barriers; heating and cooling of buildings. Laboratory work and projects.

11.4305 Lighting of Buildings C3
Prerequisite: 11.4303.
Daylighting: application to lighting of buildings; design principles; daylight factor and its components; simplified method of calculation, methods of evaluating daylighting. Artificial lighting: light sources and their applications; light control, luminaire design; calculation of illuminance; qualitative lighting design and appraisal; supplementary lighting of interiors. Experimental work and projects.

11.4306 Acoustics of Buildings C3
Prerequisite: 11.4303.
Basic theory of sound propagation in and around buildings; criteria for design; subjective and objective assessment of the aural environment; methods for noise control; introduction to room acoustics. Laboratory work and projects.

11.4307 History of Architecture and Design C3
Prerequisite: Nil.
General treatment of the history of architecture and design from early times to the present; the relationships of man and nature; influences of religion, society, culture, climate, materials and technology. Seminars and projects.

11.4308 Western Architecture C3
Prerequisite: 11.4307.
History of western architecture from middle ages to beginning of 20th century, planning and architectural space as a response to human needs; technological influences; the evolution of form, proportion and detail of the architecture. Seminars and projects.

11.4309 Australian Architecture C3
Prerequisite: 11.4308.
History of Australian architecture; historical, human and environmental context of Australian architecture, particularly from the foundations of the colony to World War I, and generally to the present. Seminars, visits and projects.

11.4320 Geometry C3
Prerequisite: Nil.
Plane curves, conics and surfaces of revolution; quadric surfaces; ruled and warped surfaces; convex bodies; spherical trigonometry, projective configurations. Tutorials and projects.

11.4321 Physics C4
Prerequisite: Nil.
1. Wave motion; simple harmonic motion, wave motion, interference. Doppler effect, energy transfer. 2. Sound: longitudinal waves, overtones, intensity levels, decibels, quality of sound. 3. Light: e.m. spectrum, Huyghens' Principle, curved mirrors, lenses, dispersion, interference, polarization, photometry, colorimetry. 4. Heat: capacity, Joule's equivalent thermometry, connection, conduction, radiation, black body, emittance, absorptivity. 5. Laboratory work.

11.4322 Solar Energy C2
Prerequisite: 11.4304.

11.4323 Room Acoustics C2
Prerequisite: 11.4306.

11.4325 Tropical Architecture C2
Prerequisite: 11.4303
Outline of factors affecting design in the tropics. 1. People and their psychological comfort needs. 2. Materials and construction: climate, sun control, thermal movement, humidity, ventilation, special glasses, roofs, stabilized earth construction. 3. Architecture in tropical Australian and other tropical climates. 4. Case studies and projects.

11.4326 Acoustics Studies C4
Prerequisite: 11.4323.
Experimental investigation and research in a selected aspect of acoustics. Laboratory and field work, methodology of results, development of techniques of application. Laboratory work.
11.4327 Lighting Research C4
Prerequisite: 11.4324.
Experimental investigation and research in an elected aspect of lighting design. Seminars: discussions of methodology of results, development of techniques of application. Laboratory work.

11.4329 The Design of Lighting C4
Prerequisites: One from Group A, 11.4305.
Major factors influencing design, current research in vision and visual conditions, lamps and lighting equipment. Appraisals of existing internal and external environments. Design project.

11.4330 Modern Architecture C2
Prerequisite: 11.4308.

11.4331 The Australian House since 1900 C2
Prerequisite: 11.4309.
20th century domestic Australian architecture. 1. Historical development: at turn of century; emergence of bungalow; climatic, social and stylistic influences. 2. American influences: California bungalow, Spanish Mission. 3. Domestic architecture after World War II in Sydney and Melbourne. 4. Architects and their works; project houses. 5. Visits, seminars and projects.

11.4332 Historical Research A C3
Prerequisites: 11.4309 and 130 credit points.

11.4333 Historical Research B C3
Prerequisites: 11.4309 and 130 credit points.

11.4334 Historical Research C C3
Prerequisites: 11.4309 and 130 credit points.
Research in the field of Australian architectural history. 1. Purpose of research: appreciation, sources of materials, use of sources. 2. Techniques of recording and cataloguing. 3. Critical assessment, evaluation and integration, interpretation. 4. Presentation.

All three electives must be taken to gain credit and desirably the three electives should be taken concurrently with 11.4707 Research Methods and 11.4708 Dissertation.

11.4335 Eastern Architecture C2
Prerequisite: 11.4307.
Introduction to eastern culture; distinctions between eastern and western mentality reflected in architectural attitudes. An overview of the salient architectural characteristics of the Near-, Middle- and Far-East in an historical context; followed by a deeper study of architecture in any one of the following regions: North Africa, Asia Minor, Persia and Pakistan; India and Nepal; South-East Asia; Indonesia and New Guinea; China and Japan.

11.4336 Measured Studies of Historic Stuctures C3
Prerequisites: 11.4308, 11.4603.
It is particularly appropriate if this elective is taken in conjunction with 11.4309 Australian Architecture, to which it is a natural complement.

11.4339 Introduction to Building Conservation C5
Prerequisites: 11.4309, 11.4414.
Attitudes towards building conservation and introduction to guidelines and techniques for the treatment of old buildings, both heritage and common building stock, with regard to their preservation, restoration, reconstruction, adaptation for re-use, and repair. Preparation of conservation proposals and plans.

11.4340 Cognition and Behaviour A C3
Prerequisite: 11.4301.
Growth and cognitive awareness of man coming to terms with his micro-environment; perception; spatial awareness, privacy, proxemics; case studies.

11.4341 Cognition and Behaviour B C3
Prerequisite: 11.4340.
Man and his relationship to the macro-environment; social behaviour patterns; cognitive mapping; crowding propinquity; the aged; case studies.

11.4342 Transport Systems C4
Prerequisite: 36.411.
1. Transport modes: road, rail, water, air. 2. Evaluation of past and present transport systems. 3. Circulation of large groups of people; baggage control. 4. Case studies.

11.4343 Urban Planning C4
Prerequisite: 36.411.

11.4344 Landscape Planning C4
Prerequisite: 11.4303.
1. Analysis and systems developed to use natural science data for landscape planning. 2. Techniques for land-use planning based upon an analysis of natural phenomena and resources. 3. Case studies.
11.4401 Principles of Construction  
Prerequisite: Nil.  
Analysis of the principles of construction with particular reference to small-scale building. The site — selection, analysis, measurement. Components and elements of buildings. Materials and construction detailing. Practical construction project.

11.4402 Structures and Materials  
Prerequisite: Nil.  
Introduction to structures. History and morphology; loads and structural requirements; structural elements and systems; basic structural form; stress and strain. Introduction to materials science; the relationship between the properties and structure of materials. The properties and use of metals, ceramics, wood and polymers in building and artefact design. Tutorials and laboratory work.

11.4403 Principles of Structures  
Prerequisite: Nil.  
Statics: forces in equilibrium; components, resultants, reactions, moments, graphical and analytical methods. Flexure: bending moment and shear force; analysis of beams and simple frames; theory of bending. Stability and rigidity of structures; loading systems; bracing systems; buckling; instability, deflection. Case studies, laboratory work and tutorials.

11.4404 Technology for Low-rise Buildings  
Prerequisite: 11.4414.  
Structural, constructional and services systems for low-rise buildings. A detailed study of interrelationships both within and between the various systems, together with an overview of the influence of technology on the design of low-rise buildings. Project.

11.4405 Technology for High-rise Buildings  
Prerequisite: 11.4415.  
Structural, constructional and services systems for high-rise buildings. A detailed study of interrelationships both within and between the various systems, together with an overview of the influence of technology on the design of high-rise buildings. Project.
11.4422 Technology for Low-cost Housing  
Prerequisite: 11.4416.
An analysis of low-cost housing, the market and industry, government policies. Structural, constructional and service systems and review of projection, methods and resource utilization related to non co-ordinated and dimensionally co-ordinated systems. Cost analysis of various systems and building forms. The detailed study of those technological systems as applied to a housing complex. Project.

11.4423 Rationalized Building Systems  
Prerequisite: 11.4415.
Systems building — philosophy and economics, systems theory craft, prefabrication and industrialization as Methods Dimensional Co-ordination. The interrelationships of structure, services and finishes and the influences of technologically-based decisions on the other aspects of architectural design. A review of existing and developing building systems. Case studies.

11.4424 Construction Planning and Management  
Prerequisites: 11.4407, 11.4408.
Pre-planning consideration, and building technology design for improved performance and management in the building construction process. Constructional and structural engineering trends, a building's services and equipment, design criteria, methods used in erection of the construction process, influence on design of the building, co-ordination in the building process. Various case studies. Building economics, evaluation and cost planning, construction management. Report on the construction process of a major building.

11.4425 Earth Construction A  
Prerequisites: 11.4402, 11.4303.
Soil selection, suitability and analysis. Adobe, pise and stabilized earth. Performance, strength, durability, erosion, thermal stabilizers, reinforcement, internal and external finishing. Constructional and structural characteristics and design requirements. Environmental and social implication. Laboratory classes to support the above, including the manufacture and testing of earth blocks, the construction of short walls, the application and evaluation of finishes.

11.4426 Earth Construction B  
Prerequisite: 11.4425.
The design and construction of a small structure using earth as a major material and the monitoring of environmental conditions in similar structures.

11.4430 Integration of Services  
Prerequisites: 11.4407, 11.4408.
The incorporation of plant and accessories in the building fabric. Economic routing; noise; identification; incompatability; outlets. Project.

11.4440 Building Materials A  
Prerequisite: 11.4414.

11.4441 Building Materials B  
Prerequisite: 11.4440.
The properties and application of building materials. An advanced study of detailing and constructional aspects of materials, related to their properties. Project.

11.4450 Advanced Structural Analysis  
Prerequisites: 11.4416, 11.4602.
Computer-based methods of analysis for linear structures. Tutorials and project.

11.4451 Advanced Structural Design  
Prerequisite: 11.4415.
Detailed structural design for common engineering materials. Tutorials and project.

11.4452 Models Analysis and Form-finding  
Prerequisite: 11.4403.
Principles of model analysis: types of models and their application, methods of stress and displacement analysis; model materials, apparatus, planning and the conduct of experiments. Form-finding: experimental methods of form-finding for surface and spatial structures. Laboratory work and project.

11.4453 Surface and Spatial Structures A  
Prerequisite: 11.4416.
Selected areas of surface and spatial structures: reticulated structures, cable structures, tensegrity structures, folded surface structures, shell structures, stressed skin structures, tent and pneumatic structures. Seminars, laboratory work and project.

11.4454 Surface and Spatial Structures B  
Prerequisite: 11.4453.
Design application of 11.4453 Surface and Spatial Structures A, individual or group work.

11.4455 Technology Research A  
Prerequisites: 140 credit points and 11.4416.
Supervised individual or group research at advanced level in a particular field of technology such as lightweight structures, structural materials and methods, system building, alternative technology.
11.456 Technology Research B  C5
Prerequisite: 11.4455.

Additional supervised individual or group research at advanced level in a particular field of technology, such as lightweight structures, structural material and methods, system building, alternative technology.

11.457 Workshop Practice  C1
Prerequisite: Nil.

Safe working practices using selected woodworking and metalworking machines and tools. Conducted during the evenings of the first weeks of certain semesters.

11.458 Construction Documentation  C5
Prerequisites: 11.4407, 11.4415.

The production of graphic documentation for the construction of a selected modern high-rise building; documentation methods; construction details; material specifications. Projects.

Practice

11.4510 Practice and Management  C2
Prerequisite: Nil.

1. The Architects' Registration Act and registration. 2. Code of professional conduct. 3. The other design consultants. 4. The client, the brief, forms of agreement and fees. 5. Regulations and codes controlling buildings. 6. Legal implications of architectural practice.

11.4511 Building Economics and Specifications  C3
Prerequisites: 11.4414, 11.4510.


11.4512 Contract Administration A  C2
Prerequisites: 11.4414, 11.4510.

1. The selection of a builder, nominated subcontractor and suppliers. 2. The administration by an architect of a selected standard form of building contract from the signing of the contract to the issue of the final certificate; responsibilities and liabilities of the architect, consultants, proprietor and the builder. 3. Post-contract activities. 4. Case studies. 5. Seminars and assignments.

11.4513 Contract Administration B  C2
Prerequisites: 11.4512 and 117 credit points.

1. Detailed comparison of the various forms of building contract in current use. 2. Responsibilities and liabilities of architect, consultants, proprietor and builder. 3. Professional defensive measures. 4. Case studies. 5. Assignments.

11.4514 Management for Architects  C2
Prerequisites: 11.4513, 11.4703.

1. Introduction to management theory. 2. The structure and organization of an architectural office, aspects of company and partnership law and insurance. 3. Business principles and management procedures relevant to an architectural office. 4. Assignments.

11.4520 Management Systems and Finance  C2
Prerequisite: 11.4514.

1. Systems employed in the architect's management functions. 2. Systems thinking, PERT, CPM, multi-activity charting, time/cost relationships, budgeting and other resources allocation systems. 3. Management of the design and documentation processes; computer applications in architectural management. 4. Introduction to building finance, feasibility, discounting, acquisition of finance, interest rates, long-term and short-term money capital cost, operational costs, maintenance costs, the effects of these considerations on 'design' decision-making. 5. Development applications, procedures and appeals; building applications, procedures and appeals. 6. Tendering or negotiating for the contract sum. 7. Seminars and assignments.

11.4521 Documentation
Prerequisite: 11.4511.


11.4522 Building Economics and Development  C3
Prerequisite: 11.4511.


11.4524 The Architect and the Law  C2
Prerequisite: 11.4513.

Architecture

11.4525 Project Management  C3
Prerequisite: 11.4513.

1. Principles of scientific management and organization, individual group behaviour, management functions, planning, organizing, staffing, directing, co-ordinating, monitoring, appraisals and evaluation. 2. Operations research techniques; network analysis, multi-activity charting. 3. Decision theory and procedures. 4. Contract and contract documents. 5. Industrial organization. 7. Seminars.

11.4526 Industrial Relations  C2
Prerequisite: 11.4512.

1. An introduction and review of the history, methodology and emphasis of the basic behavioural disciplines; the biological basis of human behaviour; the significance of socio-cultural influences and determinants, need satisfaction; the origins, nature and meanings of motivation and emotional processes. The dynamics of conflict and frustration. 2. The implications of these issues and theories in the problems of industrial relations on the management of the site, office and work force. 3. Seminars.

Communication

11.4601 Introduction to Communication  C6
Prerequisite: Nil.

Introduction to communication theory, its principles and history. Practice in clear, critical thinking; elementary problem-solving; logical development and presentation of arguments orally and in writing. Introduction to techniques and conventions of draughting and the use of instruments. Elementary plane and solid geometry and surface development. Objective depiction in graphic terms. Observation, analysis and graphic statement of aspects of form, indoor and outdoor. Characteristics of illumination systems. Elementary perspective. Emphasis on direct drawing in a variety of media involving methods and techniques employed, from sketches to graphic studies in both traditional and contemporary styles.

11.4602 Introduction to Computing  C2
Prerequisite: Nil.

Introduction to the computer as a problem-solving tool with emphasis on its application to architecture; description of computing hardware including peripheral devices of interest to the architect; opportunity to gain experience in the use of computing facilities; development of basic programming skills.

11.4603 Graphic Communication  C5
Prerequisite: Nil.

Development of techniques and skills in architectural drawing and rendering. Parallel projections; descriptive, plane and solid geometry; measured drawings; lettering; perspective theory and application; shadow projection and curvilinear construction in perspective; colour theory and practice using transparent and opaque media; principles of composition in architectural drawing, studio projects.

11.4604 Graphic Communication Theory  C4
Prerequisite: 11.4601.

Graphic expression, language and theory of graphic communication applying sense perception to the practice and study of architectural graphics, as a means of enlivening visual awareness in the structural aspects of the arts; colour, unity, space and form.

11.4620 Presentation Graphics  C3
Prerequisites: 11.4603, 11.4604.

Perspective and rendering techniques, materials, media. Graphic presentation of the natural landscape, forms and vegetation. Graphic presentation of the urban scene, people, vehicles, buildings, vegetation, street furniture, etc.

11.4621 Oral and Written Communication  C2
Prerequisite: 11.4601.

Development of the critical, logical and stylistic skills involved in researching, writing and presenting essays, theses, articles, papers, reports, speeches, talks, etc.

11.4622 Spatial Communication  C2
Prerequisite: Nil.

Awareness and understanding of space as an important creative aspect of architecture. Historical analysis of spaces, the theoretical exploration of spatial concepts and characteristics, and the practical experience of space.

11.4623 Models and Materials  C3
Prerequisite: Nil.

The development of awareness and practical skills for three-dimensional project presentation. Materials, colour co-ordination, mechanical aids, assembly techniques, application. Purpose, types of models, visual impact. Analysis and synthesis of design problems. Programming and planning.

11.4624 Architectural Photography  C3
Prerequisite: Nil.

Development of photographic skills relevant to architectural recording, understanding of design and presentation. Black and white, colour, still and moving photography; video and animation. Developing, enlarging and mounting.

11.4625 Constructional Geometry  C3
Prerequisites: One from Group A, 11.4603.

Graphic study and analysis of the geometry of architectural constructions; the underlying geometric principles from which structural framing, ribbed and shell systems are derived. These include domes, hypars and other warped shapes of planes of double curvature, folded planes, etc, and the resultant effects of intersections and penetrations of multiple units. Study of applications through analysis of constructions in contemporary architecture and historical styles; studio projects.
11.4626 Architectural Ceramics and Sculpture C3
Prerequisite: Nil.

Historical development of ceramics and sculpture as art, and their importance as a catalyst in the development of technology and the understanding of materials and spatial concepts. Theory and practice of ceramics manufacture and its application. Ceramics, sculpture, tiles and three-dimensional constructions applied to and integrated with architecture.

11.4627 Computer Graphics C4
Prerequisite: 11.4632.

Use of the computer for design graphics, presentation and production drawings and graphics programming.

11.4628 Contemporary Styles in Art C4
Prerequisite: 11.4629.

Interrelationships of style in the visual arts in their historical perspective. A study of the effect of contemporary art theories and aesthetics. Study of style in modern movements in art derived from stylistic innovation in the plastic arts: projects.

11.4629 Graphic Art C4
Prerequisite: 11.4604.


11.4631 Advanced Graphic Concepts C4
Prerequisite: 11.4620 or 11.4629.

Study of the definition and communication of ideas, concepts and objective themes by means of graphic expression — a related study of the history of interaction between the visual and the plastic arts. Use of media and materials: development of a professional level of performance in adapting graphic techniques to contemporary needs.

11.4632 Computer Programming and Graphics C6
Prerequisites: 11.4602, 94 credit points. Excluded: 11.4627 (1982 or earlier).

Development of skills in structured computer programming with particular application to architectural problem-solving, introduction to the theory and techniques of computer graphics with particular reference to architectural applications such as drafting; development of three-dimensional computer modeling techniques; experience in computer graphics programming.

11.4633 Architectural Drawing and Rendering C4
Prerequisites: 11.4603, one from Design Specific, Group A.


11.4634 Drawing C4
Prerequisites: 11.4601, 11.4603.

Direct drawing from life in various media to increase technical excellence and perception skills. Gallery visits and environmental drawing.

11.4635 Painting C4
Prerequisites: 11.4601, 11.4603.

The study and practice of painting in various media. Emphasis placed on one particular medium. Different art styles and thematic development are encouraged. Gallery visits.

11.4636 Computer-aided Drafting C4
Prerequisite: 140 credit points.

Development of a practical appreciation of the capability of computer-aided drafting systems for the production of architectural drawings, learned principally by means of hands-on experience in the use of such systems.

Other Required Studies

11.4701 Graduation Project C8
Prerequisite: 117 credit points.

This project is available to those students intending to obtain the degree of BSc(Arch) or BSc(DesStudies), and is intended as the culminating study of that area of architectural endeavour in which the student wishes to major. The area selected would be investigated to a degree of depth not normally required by practising architects, and thus would serve as an introduction to professional or consulting expertise in one aspect of architecture. The graduation project, communicated graphically or in writing, is to integrate the student’s knowledge and skill in the selected area of study and the topic is to be submitted for approval by the Head of School. The Graduation Project can be credited only towards the BSc(Arch) or BSc(DesStudies) degrees.

11.4703 Practical Experience C0
Prerequisite: 117 credit points.

Each student is normally required to obtain, before enrolling in the graduation semester, practical experience under a registered architect for a period of six months. The experience is to be recorded in a log book to be signed by the registered architect. Periods of engagement of less than one month are not accepted.

No other subject may be taken concurrently with 11.4703 Practical Experience.
11.4705 Honours Project C26

Prerequisite: 140 credit points.

This degree course at Honours level represents the architectural professional and extends beyond the normal scope of the practising architect. It may be a graphic and/or written presentation. Normally extends over two semesters and the proposed program is to be submitted for approval to the Professor of Architecture five weeks before the beginning of the session in which the student intends to enrol in the Honours Project.

11.4707 Research Methods C2

Prerequisite: 156 credit points.

The processes and methods of research, writing and referencing for publication, presentation. Preparation of outline and timetable for 11.4708 Dissertation.

11.4708 Dissertation C10

Prerequisite: 11.4707.

An individual study, on an approved topic, taken under staff supervision, with the purpose of allowing the student to gain knowledge in some aspect of architecture which is not covered in the course, or to increase knowledge in some aspect which has been covered. It requires the gathering of data, analysing that material and reaching a conclusion. The work is typewritten, in concise and clear English, properly ordered and referenced, and presented in A4 format. The work is normally about 10,000 words, illustrated as necessary.

General Studies Subjects

The student is to refer to the General Studies Handbook for details of subjects available in this area.

Other Elective Studies

11.4702 Thesis C12

Prerequisite: 140 credit points.

A specialized individual study taken under staff supervision with the object of allowing the student to gain knowledge in some aspect of architecture which is not covered in the course or to increase knowledge in some aspect which has been covered. As such the thesis is an essential 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. A student who has the prerequisite of 156 credit points and who wishes to commence work on the thesis shall register his or her name with the Professor of Architecture and submit the proposed thesis topic for approval. The student should subsequently enrol in 11.4702 Thesis only for the semester during which the thesis is to be submitted for assessment.

11.4704 Architectural Research C4

Prerequisite: 140 credit points.

An elective designed for students wishing to pursue an independent course of study in a field of architecture not falling specifically within the domain of any existing elective. Students are required to present a detailed program of study for approval by the Professor of Architecture at the commencement of the semester preceding that in which it is intended to enrol in this elective.

11.4706 Architecture Graduation Project C20

Prerequisite: 187 credit points. Selection on merit.

This semester unit is available to students who wish to culminate their studies in a project which is both a design project and a research project. The project is to be submitted to the Head of School for approval two weeks before the commencement of the session in which the student intends to enrol.

There is an opportunity for students to combine 11.4708 Dissertation with the Architecture Graduation Project by selecting a thesis topic which provides the detailed brief or technological or management aspects applicable to the Architecture Graduation Project.

Appropriate Technology

Emphasis on the socio-economic, environmental and energy parameters of technology design and implementation which, in the past, tend to have been neglected. The relevance of appropriate technology in both developed and developing countries is examined.

The Appropriate Technology subjects are made up of lectures, demonstrations, group discussions and seminars, case studies and design projects.

11.4720 Appropriate Technology 1 C3

Prerequisites: 40 credit points including 11.4301, 11.4303, 11.4402.

Social, economic and environmental problems associated with technology in both developing countries. Criteria for evaluation of technology — suitability, feasibility and acceptability. The concept of socio-technical systems. Seminars and case studies.

11.4721 Appropriate Technology 2 C4

Prerequisite: 11.4720.

Case studies of several appropriate technologies; their advantages and disadvantages. The concept of intermediate technology and its relevance in developing and developed countries; the dynamics of technological change; organizations concerned with the dissemination of appropriate technology in Australia and overseas. Field visits and project work.

11.4722 Appropriate Technology 3 C10

Prerequisites: 94 credit points including 11.4721, 11.4457.

Study in depth of some appropriate technologies; critical evaluation of the state of the art. Major and minor design projects of the student's own choice.
Heritage Studies

Concerned primarily with those places, buildings, artifacts and production techniques that are regarded as being an important and irreplaceable part of a culture. Emphasis on the traditional tools, materials and techniques used to produce the built environment, the procedures adopted in recording both the items within that environment and the production techniques used.

11.4730 Industrial Archaeology 1
Prerequisite: 40 credit points.
Introduction to the theory of archaeology. The relationship between archaeology, anthropology, traditional technology and industrial archaeology. Introduction to the scope and methodology of the study of former industrial sites. Field methods, including photography, measuring and surveying of sites and relics, and the interpretation of extant remains. The place of historical research in industrial archaeology. Field work and studio. The investigation and recording of small industrial sites.

11.4731 Industrial Archaeology 2
Prerequisite: 11.4730.
Archaeological theory and archaeological field methods. The development of industry in nineteenth-century Australia and its extant remains. The characteristics of coal mining, gold mining, tin mining, sawmilling, iron and brewing industries. The places of industrial archaeology in the evaluation of the national heritage. Field work and studio. The investigation, recording and interpretation of selected industrial sites.

11.4732 Traditional Technology 1
Prerequisite: 40 credit points.
Introduction to the crafts and technologies still being practised in Australia and overseas in the traditional manner. The value and application of traditional technology to developed and developing countries. Methods of recording traditional technologies including still photography, video and tape recordings. Field work and laboratory. The investigation and recording of traditional technologies in NSW, including ferrous foundry, mining, blacksmithing and milling. Manufacture of metallic artifacts, their analysis and recording.

11.4733 Traditional Technology 2
Prerequisite: 11.4732.
The social and industrial organization of and the impact of mechanization on traditional technologies. The evolution of the artist craftsman from the traditional crafts. Design and production methods and techniques in selected traditional technologies. Field work and laboratory. Lost wax casting, enamelling, wood turning and carving; industrial and studio visits.

11.4734 Traditional Building Technology
Prerequisite: 11.4732.
The nature and place of traditional building technologies in contemporary buildings and in building conservation. Techniques of surveying and recording traditional technologies. An investigation of technologies extant in NSW. Problems of revival of crafts and authenticity. Field work and laboratory. The investigation and recording of traditional building technologies in NSW and laboratory replication.

11.4735 Traditional Technologies of Pakistan
Prerequisite: 11.4732.

11.4736 Traditional Technology 3
Prerequisites: 11.4402, 11.4733, 11.4734 or 11.4735.
Sociological, technological and design aspects of traditional technology. The methodologies of the social and physical sciences and their application to traditional technology. Advanced studies of selected traditional technologies. Field work and laboratory. Analysis and recording of traditional technology and the conduct of advanced replication experiments.

Industrial Design

The Industrial Design subjects are made up of lectures, demonstrations, group discussions and criticism, with design projects as the main study.

Theory of the historic, social, psychological, and economic aspects of industrial design, the methodology and techniques of industrial design.

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

11.4740 Industrial Design 1
Prerequisite: 40 credit points.
The emergence and development of the industrial design profession from 1850 to the present day. Introduction to the principles of ergonomics, two- and three-dimensional design communication, and industrial design problem solving. Studio: Design project work applying industrial design criteria and methods to the solving of design problems; the solutions to be evaluated by means of prototypes, drawings and reports.

11.4741 Industrial Design Methods A
Prerequisite: Nil.
The need for design methodology and its application in the industrial situation; strategy planning, the methods with examples of their application; the problems of problem solving.

11.4742 Industrial Design Methods B
Prerequisites: 11.4740, 11.4741.
The systematic application of industrial design research, practice, techniques and methodologies to the analysis, briefing and solving of a complex problem involving product systems.
11.4743 Industrial Design Case Histories C2
Prerequisites: 11.4740, 11.4741.
A series of case histories covering a selected range of industrial design and practice areas. The cases are given by practitioners in industrial design from the University, design consultancies, and the design studios of manufacturing companies. The methodologies used in the cases and the resultant products are studied and comparisons are made with theoretical methodologies. Studies are made to determine possible differences in the final product that could have resulted from the application of different methodologies.

11.4744 Industrial Design 2 C7
Prerequisite: 11.4740.
Studies of the design applications of selected materials, project work involving design problems intrinsically concerned with particular materials.

11.4745 Industrial Design 3A C10
Prerequisites: 11.4742, 11.4743, 11.4744.
The application of industrial design research and practice methodologies to the study and solving of selected design problems.

11.4746 Industrial Design 3B C10
Prerequisites: 11.4742, 11.4743, 11.4744.
As for 11.4745.

11.4747 Industrial Design Special Project C10
Prerequisites: 140 credit points. Selection on merit.
An elective subject intended for students wishing to pursue an independent course of study within an area of industrial design not falling within the domain of any existing elective. Students are required to present a detailed program of study for approval to the Head of School during the semester preceding that in which it is intended to enrol in this elective.

Ceramic Design
Emphasis on establishing a solid basis of technological studies into which design and management skills are integrated.

11.4750 Pottery and Ceramics C5
Prerequisite: 11.4402.
Introduction to the geology of ceramic raw materials and their physical and chemical nature. The characteristics of earthenware, stoneware and porcelain. Glazes, kilns and forming methods. Laboratory and studio: Handbuilding, introductory throwing and design in pottery and ceramics.

11.4751 History of Ceramics C4
Prerequisite: 11.4307.
The history of ceramics, focusing on China and its relationship to other countries. The effects of industrialization and the development of studio and craft potteries. Present day industrial practice. Industrial and gallery visits.

11.4752 Pottery and Ceramic Technology A C5
Prerequisites: 11.4402 or equivalent and either 11.4750 or 11.4626.
Ceramic body formulation and calculations. The physical and chemical characteristics of earthenware, stoneware and porcelain and the effects of firing. Design and production methods, industrial visits. Laboratory and studio: Ceramic production methods. Ceramic body testing.

11.4753 Ceramic Kilns C10
Prerequisite: 11.4752.
Kiln types, design and construction. Firing techniques. Combustion efficiency and energy saving. Laboratory and studio: Firing, building and maintenance of a variety of kilns.

11.4754 Pottery Management C10
Prerequisite: 11.4752.
Design of ceramic production facilities and equipment with emphasis on the needs of small studios/workshops. Practical design and production experience, with emphasis on small business management. Laboratory and studio: Design, making and testing of equipment. Development of product prototypes.

11.4755 Pottery and Ceramic Technology B C5
Prerequisites: 11.4402 or equivalent and either 11.4750 or 11.4626.
Ceramic glaze formulation and calculations. The physical and chemical characteristics of glass and cooling. Body-glaze interaction. Design and production methods, industrial visits. Laboratory and studio: Ceramic production methods. Ceramic glaze testing.

Accountancy

14.001 Introduction to Accounting A S1 L2
Architecture: 2 credit points; compulsory for BBuild degree course students.
Prerequisite: Nil.
14.002 Introduction to Accounting B

Architecture: 2 credit points; compulsory for BBuild degree course students.

Prerequisite: 14.001.

An introduction for non-commerce students to managerial accounting. Long-range planning, budgeting and responsibility accounting; cost determination, cost control and relevant cost analyses.

Building

Construction Studies Stream

The construction studies stream embraces both the functional requirements and methods of constructing buildings. An understanding of structural elements and materials is fundamental. The ability to compare design alternatives and to see buildings as part of an overall environment is developed as the student progresses.

35.202 Soil Mechanics for Building

Compulsory. Prerequisite: Nil.

The origins and formation of soils; clay mineralogy; classification of soils; soil as an engineering material; site investigation; boring, sampling and in-situ testing; shear strength of soils; stress distribution in earth masses; consolidation and settlement; earth pressure calculations; bearing capacity; improvement of soil properties by compaction and stabilization; introduction to foundation design; laboratory testing of soils.

35.500 Building Graphics

Compulsory Prerequisite: Nil.

The development of visual awareness and the practical skills basic to the observation, analysis and recording of appearance. An introductory survey of the visual environment of man; buildings, precincts, squares, architectural and construction aspects. Descriptive geometry. Practical exercises in two and three dimensional composition in various media.

35.501 Construction 1 (Domestic Buildings)

Compulsory Prerequisite: 35.501.

Functional requirements and methods of building single family dwellings: footings for various site conditions; brick, brick veneer and timber walls; flooring, ceiling and roof framing; domestic joinery; finishes; domestic plumbing, drainage and electrical services; methods of setting out and supervision.

35.502 Construction 2 (Building Practice)

Compulsory Prerequisite: 35.501.

The major building trades and crafts including the use of tools and materials, and the on-site observation of trade practices: materials, techniques, tools, terminology, problem areas, quality control and supervision. The construction of a dwelling through its various stages including elementary time and motion studies. Construction drafting and measured survey.

Geography

27.818 Australian Environment and Human Response

Prerequisite: Nil. Excluded: 27.301/801, 27.295, 27.111.

Themes selected from the mechanisms of the physical environment with particular reference to Australia and the Sydney region. Landscape as an expression of dynamic response: land capability and land use problems, humans as agents of landscape change. Energy and Atmospheric Circulation over Australia: local weather patterns and weather extremes, human responses to fire, flood, and drought hazards. Development and Stability of Hillslopes: soil, vegetation and drainage relationships, problems of soil erosion. Coastal Ecosystems: problems of demand, risk and management in the coastal zone. Lectures are supplemented with tutorials, workshops, and field tutorials. Students are required to provide some materials for workshop exercises and to contribute to the cost of field tutorials.

Surveying

29.411 Surveying for Architects and Builders

A compulsory subject. Prerequisites: nil.


29.901 Introduction to Mapping

35.503 Construction 3 (Low-rise Buildings)  S1 L2T2 C5
Compulsory Prerequisite: 35.502.
Small multi-storey buildings from the functional and construction operation viewpoints. Concepts from Construction I are further developed and new concepts are introduced: 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; minor construction plant, formwork.

35.504 Construction 4 (Factory Buildings)  S2 L2T2 C5
Compulsory Prerequisite: 35.503.
Functional requirements and methods of constructing light industrial buildings: further development of structural steel, large span factory roofing, welding techniques, fire requirements, cladding methods, installation of cranes and machine footings, scaffolding, relevant builder’s plant and equipment.

35.505 Construction 5 (High-rise Buildings)  S1 L2T2 C5
Compulsory Prerequisite: 35.504.
Functional requirements of high-rise buildings and major building projects: structural systems, enclosure systems and environmental control systems and their inter-relation from a building standpoint; various methods and materials commonly used to solve functional demands; comparison of systems of construction; building loads and load factors; stability of structures and structural components; creep, settlement and other movement; principles of fire protection in high-rise projects; cladding in concrete, metal and glass, ceiling and partition systems; integration and co-ordination of services.

35.506 Construction 6 (Techniques)  S2 L2T4 C4
Prerequisites: 35.505, 35.703.
Building techniques employed on major projects including the use of plant, equipment and various construction systems: excavation equipment, shoring, ground anchorage, pile drivers, formwork, slip form, craneage, concrete handling, integrated construction systems. Students undertake on-site studies. Emphasis on method of construction rather than the attributes of the finished product.

35.517 Construction 7 (Industrialization and Technological Change)  S1 and S2 L2T2 C4
Prerequisites: 35.505, 35.703.
Factors influencing change in building techniques: technological change in building; implication of level of demand; new products, materials and processes, the regulatory system; the effect of government policy. The implications of changing techniques; the changing structure of work, skills loss, methodologies for co-ordinating building components; the evaluation of performance, social consequences of industrialization. Teaching centres around case studies of Australian and overseas building techniques, building systems, construction systems, portable buildings and mobile homes.

35.518 Construction 8 (Special Project)  C4
Prerequisites: 35.505, 35.704.
The study of special advanced topics in building construction on either a group or individual basis.

35.551 Structures 1  S2 L2T2 C5
Compulsory Prerequisite: Nil.
 Loads on structures; external and internal forces; conditions of force and moment equilibrium. Analysis of statically determinate beams; bending moment and shear force diagrams; bending and shear stresses; deflections. Qualitative structural behaviour of arch, cable, membrane, plate and shell structures; the function of bracing.

35.552 Structures 2  S1 L2T2 C5
Compulsory Prerequisite: 35.551.
Analysis of statically determinate frames; principles of structural design. Design of beams and columns in timber and steel for strength, deflection and stability criteria; combination of axial and bending stresses. Joints in timber and steel structures: gluing, bolting, nailing, riveting, welding.

35.553 Structures 3  S1 L2T2 C5
Compulsory Prerequisite: 35.552.
Load-paths in structures from external loads to supports. Principles of ultimate strength design in reinforced concrete; design of reinforced concrete beams, slabs, columns, and footings for strength and serviceability criteria; detailing of reinforcement. Introduction to prestressed concrete. Strength and stability of temporary structures; principles of formwork and falsework design.

35.580 Building Design Analysis  S1 L2T1 C3
Prerequisites: 35.505, 35.704.
A critical analysis and evaluation of current building designs within the study areas of communication and documentation, information flow, appropriate construction methods, constructibility and work flow, construction economics and cost-value analysis.

35.591 Built Environment 1  S1 L2 C2
Compulsory Prerequisite: Nil.
Background to building; the ancient world, recent history: Europe, Asia, the Americas, Australia. Development of structures, construction, building science and building economics. Rationalization and industrialization. Innovations, building research. Development of the structure of the industry and professions; laws and regulations, industrial relations, the contract document.

35.592 Built Environment 2  S2 L2 C2
Prerequisite: Nil.
The distribution of urban and regional centres in Australia. Factors which have shaped and will continue to shape the growth and quality of the built environment. Elements forming the urban environment viewed as the components of a complex system. Patterns of land-use formed by the physical structures in which people live, work and play. The interaction between land-use and transport and the effect of energy costs on land-use patterns. Population growth and structure
Building Science Stream

The underlying purpose of the building science stream is to impart to students an understanding of: the physical principles governing the behaviour of matter and the performance of building materials; the nature of the macro-environment and the parameters that control it and the principles involved in creating a suitable human environment; the mathematical tools and computer techniques necessary for the efficient design, construction, and operation of modern buildings.

35.601 Building Science 1 (Materials)  S1 L2T2 C4
Compulsory Prerequisite: Nil.

35.602 Building Science 2 (Energy)  S2 L2T2 C5
Compulsory Prerequisite: 1.931.

35.604 Building Science 4 (Plastics)  S1 L2T1 C3
Prerequisite: Nil.
Polymers in building: history and development of polymers, chemical structure, properties and applications of thermoplastics and thermosets, forming and design, reinforced plastics, fabrication techniques, building adhesives, elastomers, modified concrete.

35.605 Building Science 5 (Concrete)  S1 L2T1 C3
Compulsory Prerequisite: Nil.
Concrete technology: cement aggregates, water and admixtures, properties of fresh concrete, strength considerations, durability, shrinkage and creep, special concretes, non-destructive testing, mix design.

35.606 Building Science 6 (Metals)  S1 L1T2 C3
Compulsory Prerequisite: Nil.
Metals in building; structural ferrous alloys, structural and architectural non-ferrous alloys; corrosion and protection; welding; types of failure; brittle fracture, fatigue, creep; impact resistance, tensile properties, hardness; stain hardening.

35.607 Building Science 7 (Thermal)  S2 L1½T1½ C3
Prerequisite: 35.602.
Not offered in 1985.
Building with climate: climate (global and local), thermal comfort factors and indices, effective temperature, principles of thermal design, thermal control, ventilation and air movement, light, daylighting, sound, noise control, shelter for various climate types, design aids.

35.609 Building Science 9 (Timber)  S2 L1½T1½ C3
Prerequisite: Nil.
The production and marketing of timber; test methods and properties; stress grading of timber, codes of practice, chemical, physical and biological attack and weathering of timber, protection and preservation; thermal, acoustic and aesthetic properties: factory techniques, plywood, particle board, hardboard, softboard, prefabricated building components, laminated beams.

35.651 Services 1 (Hydraulics)  S1 L2T1 C3
Compulsory Prerequisite: Nil.
Hydraulic services pertaining to small and medium size projects; hot and cold water reticulation; sewer and storm water drainage; sanitary plumbing; introduction to fire fighting equipment and services; regulatory authorities and requirements.

35.652 Services 2 (Mechanical)  S2 L2T1 C3
Compulsory Prerequisite: 35.602.

35.653 Services 3 (Integration)  S2 L1T3 C4
Prerequisites: 35.651, 35.652.
The incorporation of plant and accessories in the building fabric. Economic routing; noise, identification; incompatibility; outlets. Project.
### Mathematics for Builders

**35.670 Mathematics for Builders**

**Compulsory. Prerequisite:** Nil.

Calculus: elementary functions, and their inverses; limits and continuity; differentiation and integration; practical applications. *Statistics and probability:* descriptions of sample data; probability and sets; probability distributions; use of probability in decision analysis; introduction to Monte Carlo simulation. *Algebra:* systems of linear equations and inequalities; introduction to linear programming; introduction to the mathematics of finance. Application of mathematics to building industry problems.

### Management Studies Stream

**Building management includes management in theory and management in practice. It equips the student with well-founded principles which he can apply to operational situations in the building process.**

**35.701 Management 1 (Management Principles)**

**Compulsory. Prerequisite:** Nil.

Scientific management principles, administration and supervision; principles of organization, individual and group behaviour; technical report writing; introduction to scientific methods of construction planning and control; the building and development industry, building Acts and Regulations, codes, local government authority powers, fees and approvals.

**35.702 Management 2 (Professional Practice)**

**Compulsory. Prerequisite:** 35.701.

Business practice procedures in relation to: statutory requirements, employment, purchasing, safety and accident prevention, risks and insurance and the conduct of meetings and formal company procedures.

**35.703 Management 3 (Planning)**

**Compulsory. Prerequisites:** 35.502, 35.603 or 35.751, 35.702.

Systems concepts and their relevance to building, planning and construction problems; construction planning techniques and site applications. Operational research techniques with particular reference to the use of networks for planning and scheduling. Selected aspects of work study appropriate to the building industry. Planning and control techniques and their application. Computer applications of CPM.

**35.704 Management 4 (Contracts, Site Administration)**

**Compulsory. Prerequisite:** 35.703.

Contract law. Local aspects of site management: Building contracts and contract administration. Site organisation, plant and equipment. Building methods and materials handling.

### Management 5 (Project Management)

**35.705 Management 5 (Project Management)**

**Compulsory. Prerequisite:** 35.704.


### Management 6 (Personnel Management)

**35.706 Management 6 (Personnel Management)**

**Prerequisite:** 35.704.


### Management 7 (Corporate Strategy)

**35.707 Management 7 (Corporate Strategy)**

**Compulsory. Prerequisites:** 35.704, 35.832 or 35.842.

Corporate strategy and the overall general management of an enterprise in the building and development industry, derivation of policy by top management together with planning of policy implementation; tax planning. There is an integration and application of knowledge acquired in previous and concurrent courses. By using case studies students appraise the present position and future prospects of enterprises in the building industry; assess potential risks and opportunities; plan the human and physical resources and activities of the enterprises required to achieve corporate objectives.

### Management 8 (Marketing)

**35.708 Management 8 (Marketing)**

**Prerequisites:** 35.704, 35.832 or 35.842.

Marketing for builders and developers in the Australian and Pacific environment with particular emphasis on the marketing mix, the relationship between a marketing system and its environment, development of marketing, tactics and strategy, market segmentation and the buyer decision process.

### Commercial Arbitration

**35.720 Commercial Arbitration**

**Prerequisite:** 35.704.

The nature and function of arbitration in relation to building contract disputes, the parties to arbitration, the arbitrator, his duties and powers. Case studies; moot arbitration.

### Law for Builders 1

**35.721 Law for Builders 1**

**Compulsory. Prerequisite:** Nil.

Law, including brief outline of sources of law in New South Wales and the system of judicial precedent. General principles of law of contracts. Contractual rights and obligation. Court structures; sale of goods and a general introduction to the law of bankruptcy. General principles of law of agency. Law of partnership.
35.722 Law for Builders 2  
Compulsory. Prerequisite: 35.721.

General principles of insurance law. Law related to non-commercial succession to property. Real property and local government law, company and administrative law.

35.751 Introduction to Computing  
Compulsory Prerequisite: Nil.

Introduction to computer programming and applications. Description of computer hardware and peripheral equipment; use of time-sharing computing facilities; development of basic programming skills.

35.752 Computer Applications in Building  
Compulsory Prerequisite: 35.751.

Extensions of flowchart and program development via time-sharing processing with emphasis on structured programming and internal program documentation; introduction to data file structures and access modes. Applications in quantity surveying, estimating and construction management.

35.753 Systems Analysis and Modelling  
Prerequisite: 35.703.

Systems analysis methods. The systems approach of considering the interaction of processes forming part of a larger whole is introduced as a general concept applicable to a wide variety of planning and management problems. In particular, the systems analysis techniques of network analysis, mathematical programming, simulation and financial modelling are studied in relation to the planning, design and construction management of building projects.

35.754 Building Information Systems  
Prerequisites: 14.001, 35.603 or 35.752.

The specification, development and use of computer based information systems in the management of building companies.

Building Economics Stream

The subjects contained in the Building Economics Stream aim to provide a study of the economic aspects of building and real estate. This study is intended to develop an awareness of cost structure and characteristics from concept to demolition and necessarily embraces a variety of operations and professions. Particular attention is given to the acquisition of skills in the various techniques used to control cost in a building program.

35.801 Quantity Surveying 1 (Measurement)  
Compulsory Prerequisite: 35.503.

Quantity surveying; historical background; functions of the quantity surveyor; the origin and development of the Australian Standard Method of Measurement of Building Works, its importance and application; methods of recording dimensions, checking and correlating plans and specifications; principles of measurement; measuring techniques for single storey construction; billing fundamentals of item descriptions; taking off quantities from plans and specifications.

35.802 Quantity Surveying 2 (Billing)  
Compulsory Prerequisites: 35.504, 35.870 or 35.871.

Advanced quantity surveying for the trades and hydraulic services; measuring techniques for multi-storey construction; detailed study of the Australian Standard Method of Measurement of Building Works, billing procedures for single items and complete trades; contract administration.

35.813 Quantity Surveying 3 (Cost Planning)  
Prerequisite: 35.802.

Functions of the cost planner; liaison with consultants; cost planning techniques including practical exercises; cost control and design economics; professional practice.

35.831 Building Economics 1  
Compulsory Prerequisite: Nil.

Introduction to building economics, the interrelationship between the national economy and the building industry; quantitative techniques and the interpretation of economic data, economic principles applied to aspects of the building industry; introductory investment analysis and decision theory.

35.832 Building Economics 2  
Compulsory Prerequisites: 35.831 or 35.840, 14.002.

Entrepreneurship in the construction industry; depreciation; taxation; operating costs; economics of building plant; materials handling and ergonomics; capital investment appraisals; case studies and field research.

35.833 Building Economics 3  
Prerequisites: 35.832 or 35.842, 35.866 or 35.868.

Economic advantages and disadvantages of conventional on-site construction and industrialized building components and system building. Financial controls used in the erection, management, maintenance and demolition of buildings. Case studies; advanced investment analysis; together with 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 stability and failure.

35.867 Estimating 1  
Compulsory Prerequisite: 35.503.

Introduction to techniques used by building estimators. Topics include the analysis of costs of material, plant and labour, and the estimation of unit rates; labour and plant scheduling, preliminary items, general and site overheads, the preliminary estimate.

35.868 Estimating 2  
Prerequisites: 35.603 or 35.752, 35.865 or 35.867.

Advanced estimating techniques, competitive tendering, contract cost adjustments; computer techniques applied to estimating.
35.871 Building Specifications  
S2 L2 C3  
Compulsory. Prerequisite: 35.503.

Principles and methods involved in the compilation of a specification for building works; objectives and purposes of a specification; the specification as a contract document; legal, tender and working aspects; relationship to bill of quantities and drawings; schedules, sources of information, references, outright and performance specifications, prime cost and provisional sums; specification sections, clauses and language, 'master' specifications; preparation, format, binding and printing; explanation of documents and general conditions.

35.880 Development Project  
S2 L1T2 C4  
Compulsory. Prerequisites: 35.504, 35.832 or 35.842.

A total approach to the building process through the four stages of pre-design, design, construction and post-construction. Market research, establishing client's needs, site selection and analysis, feasibility studies and financing methods. Selection and monitoring the work of the design team, preliminary designs, preparation of development applications. Preplanning the building process, utilization of construction and management consultants. Development control during construction and in completion, tenant fit-outs and handing over to clients of the completed project.

35.890 Property Valuation  
S1 L2 C2  
Prerequisites: 35.503, 35.831 or 35.840.


Special Requirements

35.900 Thesis (Building)  
S1 or S2 C10  
Compulsory. Prerequisite: a total of 100 credit points.

A specialized individual study taken under staff supervision with the object of allowing the student either to gain knowledge in some aspect of building 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 to be supplied by the student for the approval of the Head of School. A student may not commence the thesis until 100 credit points have been accrued and it must be submitted for examination before the close of the last semester attended by the student. Students are permitted to extend the subject over two consecutive sessions (if desired) and may commence in Session 1 or Session 2. Note: thesis performance affects the award of the degree at Honours level. See Award of Honours under the School entry earlier in this Handbook.

35.910 Industry Semester  
S1 or S2 C3  
Compulsory. Prerequisites: 35.503, 35.702.

It is desirable for students to be exposed, at the appropriate time during their course, to industrial conditions and experiences and this can best be achieved by continuous experience on a building site (or other approved situation). Students will be required to arrange approved continuous employment for a period of six months (one semester plus vacation periods). The industry semester is most beneficial if taken at about midway through the course, and must be taken at a stage which will enable students to subsequently complete a minimum of 12 credit points, apart from credit points obtained for 35.900 Thesis. During the industry semester, students are under the supervision of a staff member and are required to submit a report on an approved topic.

Town Planning

Core Subjects

36.211 Introduction to Planning  
S1 L4T6  
The structure of towns and cities. The needs and activities of people. The various land use components related to these needs: housing, schools, shops, workplaces, open spaces, recreational and cultural areas and movement systems. The need for proper interrelationships and integration. Planning theories, aims and practices. The development of the planning profession. Constraints on the profession. Plans of various types and at various levels. Planning as a process, from the formulation of objectives to implementation and monitoring. Planning law and administration; statutory planning. Design and information gathering exercises.

36.212 Planning Studies  
S2 L5T5  
Lectures, seminars and projects aimed at teaching the principles of investigation and research related to the planning of the urban environment, and their application in different situations. 1. Role of Planning Studies: type, purpose and scope of planning studies. Planning studies in the planning processes: relationships to various contexts, objectives, decision-making situations and forms of implementation. Study design and presentation. 2. Research Methodology: social science research methods. Sampling techniques, questionnaire design, data processing, use of packaged computer programs. Introducing statistical methods; application to data. Demographic methods, growth rates, population composition.

36.213 Local Planning 1  
S1 L5T5  
Prerequisites: 36.211 and 36.212.

The planning of those physical, social, and economic factors which affect the human being in his or her occupation of a piece of ground. The skills, techniques and philosophies relevant to undertaking planning activity at the level which most directly affects the individual — the area in the vicinity of their home. By a combination of lectures,
seminars, projects and directed readings the subject shows how the individual relates to and is influenced by the local environment, and how the planner can act to design, improve and regulate that environment. Commences with the individual dwelling, the activities undertaken in it and the factors which impinge on its environment, and progresses to the locality: what it is and how people define it. The planning concept of a precinct is introduced and the difference is explored between a precinct and a neighbourhood. With this context set, planning studies are undertaken for both a new and an existing precinct.

36.214 Local Planning 2  
Prerequisites: 36.211 and 36.212.

Takes up the theme that local planning, in the first instance, is the showing of one's concern for the planning and design of more immediate environment and extends it into the larger urban system of which local environments are a part. By a combination of lectures, seminars, projects and directed readings the subject shows how localities relate to each other, how these relationships are influenced by physical constraints and opportunities and by social and economic change, and how the planner can act to plan, design, improve and regulate this larger urban system. Studies are made and lectures are given on new communities in Australia and overseas. The location, functions and planning of activity centres, industrial areas, transport and utility networks are studied as a basis for the planning of existing and new communities.

36.215 Planning Law and Administration  
Prerequisites: 36.213 and 36.214.

Theory and the practice of techniques and the administrative procedures needed to transform the policies and details of planning proposals into documents which have legal effect.

The subject comprises three parts, Planning Law, Planning Administration and Land Valuation. 1. Planning Law: conceptual/theoretical nature of the law, the relationship between the environmental context, the Crown, the parliament and the judiciary, the ways in which the laws are made and promulgated, the relationship between laws and regulations, the legal concept of property in land, the definition of various legal concepts of interests in land, the Australian Constitution and the legal relationship between the Commonwealth and the States, particularly in regard to matters affecting land, the place of administrative law. An historical introduction to planning law in Australia. A detailed account of the principles and practice of strategic and statutory planning in Australia. State environmental planning policies, regional environmental plans, local environmental plans, the role and function of environmental studies, statutory mapping, the development application process, the appeal process, the settlement of disputes. 2. Planning Administration: administrative context within which planning operates as a function of government, especially the role and function of statutory bodies in the planning and environment area, the administration of the planning function at national, state and local levels, the act of management, administrative theory, personnel administration, the role and responsibility of the professional planner in the public and private sector. 3. Land Valuation: the principles and practice of land valuation in Australia. Definitions of value, methods of valuation, the role of the valuer, compensation and betterment.

36.218 Regional Planning 1  
Prerequisite: 36.215.

1. Managing Change: urbanization, development and conservation, centralization and decentralization, causes and effects, techniques of analysing and forecasting change: migration, economic, social and political influences; decision-making structures and processes; planning objectives and means, planning approaches — comprehensive vs issue planning, incremental planning, policy planning, uncertainty management. 2. Urbanized Regions: socio-economic determinants of urban expansion and consolidation; population and employment; land use/transport/environment interactions and their influence on urban structure; the distribution of power, equity and the mechanisms for redistribution of resources; planning for metropolitan regions, subject planning (housing, commerce, manufacturing, recreation etc); area planning and management (release areas, regional centres, sub-regions).

36.219 Regional Planning 2  
Prerequisite: 36.218.

Review of the activities by central governments to establish planning frameworks and policies for regions characterized by relatively small urban centres and generally dispersed settlement patterns which are not part of large urban regions. An introduction to regional development planning; spatial patterns of economic and social imbalance; policies and programs to redress imbalance; evaluation techniques; case studies from large urbanized (but not metropolitan) regions and sparsely populated regions; review of planning approaches and their effectiveness.

36.491 Thesis

A specialized individual study taken under staff supervision with the object of allowing students either to gain knowledge in some aspect of town planning which is not covered in the course or to increase their 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 thesis topic is submitted by the student for the approval of the Professor of Town Planning at the end of Year 4 of the course and the completed thesis is submitted for examination towards the end of Year 5.

Students participate in seminars on report and thesis writing during Year 5 and present progress reports on their theses at the seminars.

Related Subjects

36.452 History of Town Planning  
Brief review of planning theories and practices in past ages before the Industrial Revolutions. Planning theories and practices in the late 19th and early 20th century. The birth and development of the town planning profession in Britain and Australia. Planning theories and practices since World War II.

36.453 History of Cities  
Brief survey of urban development chiefly related to Western Civilization, from earliest known cities to the present day, noting how geographical, social, political economic and technological factors help determine the form of cities, making them distinctive for each different period. Origins and purposes of cities. The civilizations of Mesopotamia, Egypt, Crete, Greece and Rome, Medieval Europe, The Renaissance and the Baroque. The French and English landscape garden movements. The 18th century in England. The Agrarian and Industrial Revolutions. Company towns, garden cities and new towns. The 20th century Futuristic ideas.
36.134 Graphic Communication

S1 L1T3

Graphics as a communication technique. Media and techniques for different purposes. The planner's need to communicate graphically. Exercises in drawing.

36.222 Computers and Information Systems

S2 L1T1

The use and potential use of computers by planners. Basic knowledge to make use of opportunities including time sharing, batch processing and the use of graphic output. Components of the computer and their interrelationships, data processing, file management, use of library programs, interpretation of results, basic programming, planning information system types, application; establishment; maintenance.

36.131 Communication Techniques

S2 L1T2

Techniques used to communicate planning ideas and proposals. Presentation and layout of information; reproduction of drawings, maps and reports, photographic processes; model making; audio-visual techniques; report and letter-writing; public speaking and oral communication.

36.243 Building and Land Development

S1 L1T1


36.242 Land Economy

S2 L1T1

The use, management and development of land as a national resource; the economic, legal sociological and technological factors which affect the individual ownership of proprietary interests in land. Aspects of 'land' concerned with the control of land use, land management, land reforms, land development, land transaction and land valuation.

36.232 Environmental Science 1

S2 L1T1

Elements of the bio-physical environment which may have direct significance for man in his occupation of the earth. These elements are considered both as controls on man's activities and as targets for man's impacts, in ways relevant to the work of urban and regional planners. Physical processes directly related to planning problems; human occupation of areas subject to natural hazards; impact of urbanization on the environment; environmental issues in general; skills in map interpretation.

36.233 Environmental Science 2

S1 L1T1

Introduction to methods used to incorporate consideration of physical environmental variables into the planning process.

36.253 Environmental Science 3

S2 L1T1

Climates and climatic elements. Design for climate. Man-environment studies. Sun control including shading devices. Shadows and shading. Daylight as planning control. Wind effects. Aspect. Sound waves and decibels, the ear hearing, measurement and analysis of sound sources, acceptable sound levels inside and outside buildings, environmental noise sources and their control.

36.225 Public Policy and Urban Government

S1 L1T1

Public policy and bureaucracy, including decision making processes in general. Australian government policy making, particularly in relation to cities; freedom of information. Executive government at the state level; regional government and administration; local government structure, functions, politics; co-ordination and citizen participation; theories of urban politics.

36.235 Urban Sociology

S1 L1T1

A series of lectures and seminars on the relationship between planning and the social structure of urban areas with reference to both social theorists and empirical studies. People and their relationship to the urban environment. Relationships between groups within the context of the urban environment. The evaluation of planning objectives and outcomes.

36.299 Introduction to Social Planning

S1 L1

Focus on the social component of the planning process, including participatory techniques of public interaction, the availability of resources for implementing community improvement measures, and equalising and anti-discriminatory measures for disadvantages and minority groups. Students study and make use of games that are aimed at increasing awareness of conflicts of interest inherent in city organization, and the ways to resolve them.

36.244 Economic Issues in Planning

S2 L1T1

The market mechanism and market failure. Macroeconomic policy, investment patterns and economic change in cities and regions. Financing urban services and the impact of growth on local government. Economic impacts of development proposals.

36.461 Engineering

S1 L3T1

The provision of public utility services: town water supplies, sewerage, drainage, flood management, electricity and gas supply, telecommunication. Transportation planning and design: road hierarchy, road geometry, arterial roads, residential streets, intersections, cross sections, road layouts in residential areas, public transport. Transport and environment: accidents and safety, noise, air pollution. Traffic engineering; characteristics of road vehicle, driver, road system.

36.462 Planning in Third World Countries

S1 L1

A review of issues in and approaches to planning of cities and regions in Third World countries.

36.228 Transportation Planning

S2 L1T1


Management: traffic flow, capacity, traffic area management, parking standards and control, operational requirements of public transport.
### 36.234 Urban Design (S1 L2T1)
- Aims to increase visual awareness and sensitivity; to learn about design components; and to develop some understanding of the effects of planning controls on the appearance of cities. Topics include the character and identity of areas as influenced by natural and man-made features; townscape elements (skyline, floorscape, wallscape, street furniture, vegetation, water and the synthesis of these); townscape in movement; the effects of light and shade and night time lighting and of wind and other climatic factors; pedestrianized urban spaces — their creation, function and appearance; the impact of new buildings, rehabilitation and reconstruction; the effects of the car and other forms of transport; varying perceptions of people; performance standards and other controls affecting appearance. Lectures, seminars, visual analysis exercises and urban design case studies and projects.

### 36.437 Survey Camp
- Year 5 students are required to attend a survey camp of up to two weeks’ duration. The camp is held in or near an appropriate country centre. Students, under staff supervision, study the character and function of a regional centre, patterns of rural settlement, and rural land use classifications.

### 36.210 Professional Practice (S2 L1)
- Planning as a profession, professional standards, ethics, preparing studies and plans, preparing and giving evidence, briefing and consulting, management, corporate planning, continuing education.

### 36.503 Practical Experience
- For the purpose 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.

### Planning Electives

#### 36.300 Planning Elective (S1 or S2)
- For initial enrolment only.

#### 36.3012 Third World Planning (2CCH)
- 36.3014 Third World Planning (4CCH)
- Studies of planning problems in Third World Countries by way of lectures, research and seminars related to population, society, labour and incomes, rural-urban migration, infrastructure and housing.

#### 36.3022 Urban Conservation (2CCH)
- 36.3024 Urban Conservation (4CCH)
- Definitions and philosophy of urban conservation; setting objectives and formulating policy, criteria for selecting and assessing conservation areas; planning consideration to protect and enhance the urban fabric; legislation and mechanisms for urban conservation existing in NSW and elsewhere; potential; some effects of urban conservation (physical, social, economic); attitudes to urban conservation; case study of selecting and planning a conservation area.

#### 36.3032 Residential Planning (2CCH)
- 36.3034 Residential Planning (4CCH)
- Procedures and legal controls over land subdivision in NSW, land studies in terms of climate, terrain, vegetation, slopes, soils, drainage, etc; land development in relation to earthworks, roads, drainage and other utilities, detailed consideration of road and drainage design; subdivision design, land values and land economics. Innovatory designs.

#### 36.3042 Local Planning 3 (2CCH)
- 36.3044 Local Planning 3 (4CCH)
- Research and design into a topic at the town scale of current concern in planning.

#### 36.3052 Urban Studies (2CCH)
- 36.3054 Urban Studies (4CCH)
- Exploration in depth of an aspect of environmental planning of particular interest to the student. An individual research study to expand the student’s experience in methodological and substantive areas beyond what is encountered elsewhere in the course.

#### 36.3062 Planning Law and Administration 2 (2CCH)
- 36.3064 Planning Law and Administration 2 (4CCH)
- Aimed at increasing the student’s knowledge and awareness of issues in the general areas of Planning Law, Planning Administration and Statutory Planning.

#### 36.3082 Regional Planning 3 (2CCH)
- 36.3084 Regional Planning 3 (4CCH)
- Planning methodology in metropolitan areas; a critical overview and a detailed examination of planning processes, policies and programs for selected areas/functions/institutions.

#### 36.3092 Regional Planning 4 (2CCH)
- 36.3094 Regional Planning 4 (4CCH)
- Original research into a regional topic of current concern in planning.

#### 36.3102 Social Planning (2CCH)
- 36.3104 Social Planning (4CCH)
- Planning responsibilities in equalizing resources distribution. Discussion of consensual goal definition and achievement versus social engineering. Popular participation in planning: why, where and how. Methodology and aids to social planning. Policy formulation and case studies. The program is presented by and with practitioners in the field and includes role playing games and problem solving essay. If possible an involvement in an area project may be substituted for some of the program.
36.3122 Impact Assessment and Evaluation 2CCH
36.3124 Impact Assessment and Evaluation 4CCH


36.3132 Transport and Environmental Management 2CCH
36.3134 Transport and Environmental Management 4CCH

Related to the integration of transport and environmental management at the local level.

36.3142 Rural Planning 2CCH
36.3144 Rural Planning 4CCH

Original research into a topic of current concern in rural planning.

36.4402 Planning (Special Subject) 2CCH
36.4404 Planning (Special Subject) 4CCH

Students have the opportunity to pursue a subject of special interest related to planning, depending on staffing resources.

As planning is a temporal concept, historical, contemporary, and future themes are built into the subject. At the completion of the program the student should understand the environmental planning process and the individual's rights under it.

This full subject is also offered as a half elective consisting of the lecture sessions only. Assessment is by written assignment, tutorial paper, and class participation. The assignment is based on the lecture material, and students are also required to prepare a written paper for tutorial discussion.

Landscape Architecture

37.0014 Introduction to Computer Applications S2 L1T1

Required: Nil.

The use of computers by landscape architects. Necessary knowledge to make full use of opportunities that the computer can provide including time sharing, batch processing and the use of graphic output. Components of the computer and their interrelationships, data processing, file management, use of library programs, interpretation of results, basic programming.

37.1102 Horticulture for Landscape Architects S2 L2T1


General horticultural study of propagation techniques, current nursery practice, impact of weeds, plant diseases, planting techniques and forestry practice. Plant collecting and identification.

37.1202 Prehistory for Landscape Architects S2 L1

Required: Nil.

Formation of the Australian landscape in prehistory. An overview of continental drift, orogenesis, paleoclimates and glacial cycles, plate tectonics and geomorphology. Paleo environments and the advent of homo sapiens. Critical interfaces within the biosphere and the impact of prehistoric man with reference to extant 'primitive' societies.
37.1302 Landscape Analysis  
Prerequisites: 27.801, 43.202.
Observation and interpretation of both physical and biological environment and their interrelationships. Landscape character through sensory inputs and prehistory. Fundamental characteristics of biological systems, with emphasis on relationships with the physical environment, particularly geology, soils. Survey of Australian plant communities and associated fauna with particular emphasis on the Sydney Region. Recording and presentation techniques associated with landscape surveys. Field excursions.

37.1403 History of Landscape Architecture  
Prerequisite: Nil.
Chronological development of cultural landscapes described by the investigation of philosophical, aesthetic and social aspects of Eastern and Western cultures with an emphasis on the Australian context. Changing attitudes to nature as reflected in land uses. The development of garden design and landscape architecture.

37.1504 Environmental Sociology for Landscape Architects  
Prerequisite: 37.1202.
Perception of human requirements through behavioural studies, including territoriality and personal space identity. The effect of environmental changes on people. Sociological techniques for understanding user requirements. Post design evaluation. Application of simple statistical methods.

37.1606 Land Systems  
Prerequisite: 37.5003.

37.1707 Land Management  
Prerequisite: 37.1606.
An investigation of resources and their management, with reference to managed landscapes, both cultural and natural. Conservation and rehabilitation methods are studied in relation to rural and urban landscapes, including coastal processes. Rehabilitation methods are related to land use types with studies of specific examples, following investigations of human impacts and their assessment.

37.3006 Research Methods  
Prerequisite: Nil.
Investigation of various research methods with application to study in landscape architecture. Development of the critical, logical and stylistic skills involved in researching, writing and presenting essays, theses, articles, papers and reports. Selection of topic for study in the subject 37.3007 Landscape Thesis.

37.3007 Landscape Thesis  
Prerequisites: 37.3006, 37.5606.
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 the student’s 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 Professor of Landscape Architecture at the close of Year 3. The completed thesis must be submitted for examination at the close of Year 4.

37.3101 Landscape Graphics 1  
Prerequisite: Nil.
Basic technical drawing with emphasis on two-dimensional graphics. Pencil techniques, drafting conventions, layouts, lettering, instruments and scale presentation. The principles and application of orthographic, axonometric and isometric projection. Development of plan and section drawing techniques. Types of drawings and appropriate graphic techniques. Introduction to the use of various media. Depicting planting in landscape graphics.

37.3202 Landscape Graphics 2  
Prerequisite: 37.3101.
Advanced technical drawing techniques including the use of various media, with emphasis on three-dimensional graphic concepts. Investigation of the basic principles of perspective theory. Application of perspective drawing to landscape architectural works, including landforms and other elements. Model making and introduction to photography.

37.3303 Landscape Graphics 3  
Prerequisite: 37.3202.
Applied graphic presentation techniques with emphasis on design concepts. Survey, analysis and synthesis documentation and sketch presentation. Exercises in presentation related to assignments being undertaken as part of the Landscape Design subjects. Photography as a presentation medium.

37.3404 Landscape Graphics 4  
Prerequisite: 37.3303.
Advanced graphic presentation techniques as related to final design development and working drawing documentation. Exercises in presentation related to assignments being undertaken as part of the design and implementation strands.

37.5003 Planting Design  
Prerequisite: 37.1102.
Plants as design elements; management of plant designs. Plant designs for specific sites; water plants, indoor plants, roof gardens, industrial and reclaimed sites. Observation of existing landscape schemes. Documentation of plant design.
Architecture

37.5101 Design 1  
Prerequisite: Nil.

Basic design theory to initiate a language of design elements. Investigation into materials and methods of expression used in art and design. Practical exercises in communication of ideas. Sketching in the field; studio work.

37.5202 Design 2  
Prerequisite: 37.5101.

Design theory and processes including introduction of notions of spatial design and composition with reference to historical examples. Development of personal expression in art and design through exercises in selected media. Concepts of naturalism and abstraction. Sketching in the field; studio work. Site appreciation.

37.5303 Landscape Design 1  
Prerequisite: 37.5202.

1. Basic Design. The interpretation of aesthetic values of sites and environments used in design exercises. Emphasis on freehand drawing by sketching in the field. 2. Applied Design. Logical design process applied to simple landscape design exercises with emphasis on site survey, site analysis and functional analysis.

37.5404 Landscape Design 2  
Prerequisite: 37.5303.

1. Basic Design. Aesthetic appreciation of chosen environments both urban and natural. Graphic communication using selected media. Seminars on design philosophy related to design exercises. 2. Applied Design. An understanding of materials and construction as applied to a range of medium scaled projects with an emphasis on practical relationships between design, use of appropriate materials and construction detailing.

37.5505 Landscape Design 3  
Prerequisites: 37.3404, 37.5404, 37.7404

More advanced exercises wherein students find it necessary to undertake considerable research and make value judgments based upon an extensive 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 call for group work. (Several are directed towards the solution of real design briefs.)

37.5606 Landscape Design 4  
Prerequisite: 37.5505.

37.5707 Landscape Design 5  
Prerequisite: 37.5606.

37.5808 Landscape Design 6  
Prerequisite: 37.5707.

Students are called upon to employ all the knowledge, skill and understanding they have gained in previous years. Projects are few in number, but call for solutions of professional standard, supported by thorough documentation. Group work predominates. Projects are representative of our major environmental problems, ranging from expressways to mineral extraction and from National Parks to solid and liquid waste disposal.

37.7101 Landscape Technology 1  
Prerequisite: Nil.

Basic techniques used in design, development and construction. General site appraisal, map reading, elementary surveying and terrain assessment, and application of mathematics.

37.7115 Professional Practice 1  
Prerequisites: 37.5404, 37.7404.

The landscape architect's responsibilities in law; a study of the development of law in Australia, including torts, contracts, equity and environmental legislation. Project procedure, the stages of a capital development project. Construction contracts, including tender documentation, subcontract conditions and subconsultative responsibilities.

37.7202 Landscape Technology 2  
Prerequisite: 37.7101.

Techniques for recording and assessment of physical site characteristics: surficial geology, microclimate and other factors. Land surface manipulation including contour planning and earthwork calculations, and more detailed surveying techniques. Fieldwork exercises.

37.7216 Professional Practice 2  
Prerequisite: 37.7115.

The specification, its function and forms. A comparative analysis of various standard contract forms including SAA documents and other performance codes. Preparation of contract documentation, including elemental and trade technical sections. Cost planning and feasibility studies.

37.7303 Landscape Technology 3  
Prerequisite: 37.7202.

Materials science: the relationship between the properties and structure of materials. The derivation, conversion and production of materials commonly used in landscape and construction. Structures: the history and morphology, loads and structural requirements, structural elements and systems, and basic structural form.
37.7317 Professional Practice 3  
Prerequisite: 37.7216.

Contract administration and project supervision, the role of the consultant. Tender evaluation, award of contracts, site inspections, variation procedure, claims and certificate issue and general site administration. Practical completion, rectification and final certification. The rights and duties of the proprietor and contractor, including the relationship with the consultants. Post-contract activities, maintenance manuals, appraisal of design and construction and retention of records. The Statute of Limitations.

37.7404 Landscape Technology 4  
Prerequisite: 37.7303.

Application of materials in structural situations, including elementary building techniques and mechanical analysis. Landscape construction methods, including design and documentation of grading, earthworks and retaining structures.

37.7418 Professional Practice 4  
Prerequisite: Four months approved practical experience, 37.7317.

Landscape architecture as a profession; obligations, liabilities and responsibilities. Professional association and registration, including a study of the Australian Institute of Landscape Architects. Office management and practice; record keeping, correspondence, insurances and taxation. Copyright and document control. Preparation of reports on practical experience gained during enrolment in the course. A minimum requirement of four months approved experience is prerequisite to enrolment in this subject.

37.7505 Landscape Engineering 1  
Prerequisite: 37.7404.

Design and construction techniques related to basic civil works, including earth works, route alignment, services, urban and rural drainage. Interpretation of engineering design and development documents. Projects incorporating detail resolution of civil works.

37.7606 Landscape Engineering 2  
Prerequisite: 37.7505.

Design and construction techniques related to water control and treatment, waste disposal and sewage treatment. Overview of the principles of transportation systems including roads, railway permanent ways, airports, ports and harbours.

37.9105 Landscape Planning 1  
Prerequisite: 37.1504.

Basic methods and techniques of resource data collection, analysis and valuation. History of landscape planning in Australia and overseas with reference to pioneering case studies. Projects include the use of maps, air photos and simple computer programs.

37.9206 Landscape Planning 2  
Prerequisite: 37.9105.

Classification of planning methods. Study of complex methods and techniques used in recent landscape planning models. Development of land use suitability models for recreation, residential, industrial, commercial, grazing, agriculture, forestry and conservation. Projects include the use of remote sensing techniques and advanced computer programs.

37.9307 Landscape Planning 3  
Prerequisite: 37.9206.

Major planning project in conjunction with final landscape design project. Discussions on contemporary environmental planning issues. Australian case studies.

37.9408 Landscape Planning 4  
Prerequisite: 37.9307.

Visual analysis, assessment and evaluation techniques detailed in order to incorporate this important aspect into planning models. Visual resource management. Recent Australian and overseas case studies. Projects incorporate relevant visual analysis computer programs.

Landscape Electives for Students of Architecture and Related Disciplines

The following landscape electives require attendance of two hours per week over a period of 14 weeks. They are offered subject to demand and availability of resources, consequently students are advised to contact the School before finalizing their program. Credit point values and prerequisites specifically refer to students of Architecture enrolled in courses 3275, 3280, 3290 or 3295.

37.100 Site Planning Elective  
2 credit points. Prerequisite: 52 credit points.

Not offered in 1986.

Recognition of natural processes and factors in site analysis. Opportunities and constraints with respect to potential development. Development of a logical approach to site planning.

37.300 Planting Design Elective  
2 credit points. Prerequisite: 104 credit points.

The selection and use of plant materials within the built environment with particular reference to visual and ecological considerations.

37.3015 Environment Impact Assessment 1  
2 credit points. Prerequisite: 156 credit points, or as otherwise approved by Subject Authority.

Not offered in 1986.
37.3016 Environmental Impact Assessment 2

2 credit points. Prerequisite: 37.3015.
Not offered in 1986.

The environment defined in terms of bio-physical and socio-economic factors. Introduction to the general principles of environmental survey and analysis and the assessment of impact. Specific methodologies are reviewed on a comparative basis. The importance of communication between the environmental sciences and professions and the problems of objectivity. Emphasis upon the role that environmental impact assessment should play as part of the planning process: landscape assessment methodologies reviewed with specific reference to their adaptability for use as a 'before and after' technique for comparatively assessing impact in relation to visual/aesthetic factors.

The student undertakes a specific study of current social significance on a group basis in two phases over two consecutive sessions, in the same year. Each phase is used as a partial assessment of progress.

37.400 Urban Landscape Elective

2 credit points. Prerequisite: 104 credit points.
Not offered in 1986.

The treatment of spaces between and upon buildings. 'Hard' and 'soft' landscape treatments. Functional uses of open space within the built environment and the design of street furniture.

37.500 Recreation Planning Elective

2 credit points. Prerequisite: 156 credit points.
Not offered in 1986.

Various recommended provisions for open space allocation for recreation are examined and classified in terms of contemporary needs. Specific requirements of a range of recreation facilities are studied in detail and successful Australian and overseas examples evaluated.

43.202 Botany for Landscape Architects

Prerequisite: Nil.

How green plants function. What is known about how plants grow. Specific topics include: what happens in a plant meristem, hormone interactions and growth, transport systems in plants, water uptake and use, mineral nutrition, the role of light and leaves in photosynthesis, control of flowering process, germination and senescence. Emphasis is on the interaction between plant structure and function.

37.224 Landscape Architecture

Landscape and planting within the built environment with particular reference to functional, ecological and aesthetic considerations; the treatment of spaces between buildings and in road reservations, hard and soft landscape treatments, establishment and maintenance cost.
Graduate Study

Faculty of Architecture
Graduate Enrolment Procedures

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

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 study leading to the award of the degree of Master of Architecture, Master of Building, Master of Landscape Architecture or Master of Town Planning. Facilities are also available in each school for research towards the degree of Doctor of Philosophy. For details concerning this degree see *Conditions for the Award of Higher Degrees* later in this handbook or write to the Dean.

Summary of the Conditions for the Award of a Masters Degree

1. Every candidate for the degree shall be required to carry out a program of advanced study, to take such examinations, and to perform such other work as may be prescribed by the Faculty. The program shall include the preparation and submission of a thesis embodying the results of an original investigation or design relative to architecture, building, industrial design, 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 at Honours level 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 microfilm or other copying medium.
Graduate 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. Master of Science (Industrial Design)
4. Master of the Built Environment (Building Conservation)
5. Master of Architectural Design
6. Master of Industrial Design
7. Graduate Diploma in Housing and Neighbourhood Planning

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 program may be offered subject to demand.

Graduate School of the Built Environment

Head of School
Professor J. C. Haskell

The aim of the Graduate School is to provide, within the Faculty of Architecture, a centre to promote the inter-disciplinary study of the built environment through research, teaching, publications and expert advice to appropriate authorities, organizations and professions in Australia and Southeast Asia, at a high level of academic excellence, critical objectivity and perceptive innovation.

The School undertakes a range of activities within the areas of: acoustics, architectural history, building conservation, health facilities design, industrial design, lighting design, lightweight structures, solar architecture, urban design and continuing education.

Research

The School currently has active research units working under its control in most of the areas listed above. For more detailed information concerning current research and facilities, contact the Head of School.

Research Degrees

The School makes available to research students a resource facility covering a wide spectrum of relevant disciplines in which students can follow a largely self-determined program of study, research and practice.

The School tailors individual programs to student needs at both Masters and Doctoral levels. In doing so it is able to call on its own research units and on many resources from within every faculty of the University.

Research may be undertaken towards the award of Doctor of Philosophy (PhD), Master of Architecture (MArch) and Master of the Built Environment (MBEnv).

Eligibility for Enrolment

The School welcomes professional level graduates in any discipline whose further studies are to be in the area of the built environment and does not restrict its intake to graduates in architecture, building, town planning, landscape architecture or industrial design.

1120
Doctor of Philosophy
Doctor of Philosophy
PhD

This is a research degree requiring an original and significant contribution to knowledge in an approved subject.

1121
Doctor of Philosophy
Doctor of Philosophy
PhD

This degree provides for research work of a specialized and restricted nature. Students individually follow a self-determined program of study and research.

In addition to the general conditions governing the award of the degree of Doctor of Philosophy, the School offers an alternative study program to students already holding the degree of Master in an appropriate discipline.

Course Structure

The program is normally taken over four full-time sessions (two academic years). In special circumstances where the research project can be properly served and with the concurrence of the Professorial Board, some of this time may be fulfilled on an equivalent part-time basis, but in no case will students spend less than two consecutive sessions full-time in the course.

The program consists of:

1. A compulsory core containing:
   (1) 39.301G New Development Studies 2 credit points
   (2) 39.302G Research Studies 2 credit points
   (3) 39.303G Directed Studies 3 credit points
   (4) Preparation and structuring of a doctoral research topic

   This part must normally be completed by the end of the first session of studies.

2. Electives selected from a wide range of relevant subjects offered by faculties throughout the University (12 credit points).
Elective studies commence at the beginning of the first session of studies and must normally be completed by the end of the second session of studies.

3. Supervised research of a doctoral research topic approved by the Higher Degree Committee of the Faculty of Architecture and the preparation of a thesis. This work can be undertaken only on satisfactory completion of Part 1.

Student progression is evaluated at the end of first session (preliminary evaluation) and at the end of second session (confirmation evaluation). The thesis examination and its procedures conform to the normal University examination practice with regard to doctoral theses.

2201
Master of Architecture

Master of Architecture
MArch

Graduates holding the degree of Bachelor of Architecture of the University of New South Wales or other approved university may apply to register for the degree of Master of Architecture by research. General conditions governing registration as a candidate for this degree are given later in this handbook.

2240
Master of the Built Environment

Master of the Built Environment
MBEnv

This degree provides for research work of an interdisciplinary nature relevant to the built environment. Graduates holding a minimum four year degree of Bachelor of the University of New South Wales or other approved university in any appropriate discipline may apply to register for the degree of Master of the Built Environment by research. General conditions governing registration as a candidate for this degree are given later in this handbook.

8100
Master of Science (Acoustics) Course

Master of Science (Acoustics)
MSc(Acoustics)

This course provides for graduate study and research in several important aspects of acoustics, such as community noise control, noise control in industry and in buildings, auditorium design and physical acoustics. It is designed primarily for graduates in engineering, architecture, science or building who wish to specialize in acoustics and it is suitable for those who wish to find employment with noise control authorities, or in industry to practise as consultants, to undertake research or to become part of a multi-disciplinary team in an architectural or engineering practice.

Admission Requirements

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

An applicant for registration for the degree course of Master of Science (Acoustics) shall have been admitted to the degree of Bachelor of Science (Architecture) or Bachelor of Science (Design Studies) at Honours level, Bachelor of Architecture, Bachelor of Building, Bachelor of Science at Honours level, or Bachelor of Engineering at the University of New South Wales, or an equivalent degree from another university or tertiary institution. In exceptional cases an applicant may be registered as a candidate for the degree if he submits evidence of such academic and professional attainment as may be approved by the Higher Degree Committee of the Faculty of Architecture.

Notwithstanding any other provisions of these conditions the Higher Degree Committee of the Faculty of Architecture may require an applicant to demonstrate fitness for registration by carrying out such work and sitting for such examinations as the Higher Degree Committee of the Faculty of Architecture may determine. Candidates with BSc(Arch) or BSc(DesStud) at Honours level, BArch or BBBuild degrees are strongly advised to take refresher courses in mathematics and physics before entry to the course. Candidates with BSc at Honours level or BE degrees who wish to specialize in noise control in buildings and auditorium acoustics are also strongly advised to study an introductory construction subject.

Course Structure

The course is normally taken over four part-time sessions (two academic years) and a student must obtain 34 credit points to graduate. 15 credit points must be obtained by satisfactorily completing a graduate project in an approved topic. 8 credit points must be obtained by completing four compulsory core subjects and the remaining 11 credit points are obtained by the satisfactory completion of formal subjects, which may be chosen to emphasize a particular field of acoustics. The subjects offered in any session will depend on student numbers and interests.

Course Subjects

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
<th>Core/ Elective</th>
<th>Usual Session Offered</th>
</tr>
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<tbody>
<tr>
<td>1.927G</td>
<td>Acoustic Theory</td>
<td>2</td>
<td>Core</td>
<td>S1</td>
</tr>
<tr>
<td>39.651G</td>
<td>Mechanical Shock and Vibration</td>
<td>2</td>
<td>Core</td>
<td>S1</td>
</tr>
<tr>
<td>39.652G</td>
<td>Noise Control in Industry</td>
<td>4</td>
<td>Elective</td>
<td>S3</td>
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<tr>
<td>39.901G</td>
<td>Acoustic Measuring Systems and Electroacoustics</td>
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<td>Core</td>
<td>S1</td>
</tr>
<tr>
<td>39.902G</td>
<td>Advanced Physical Acoustics</td>
<td>4</td>
<td>Elective</td>
<td>S3</td>
</tr>
<tr>
<td>39.993G</td>
<td>The Ear, Hearing and Hearing Conservation</td>
<td>2</td>
<td>Core</td>
<td>S1</td>
</tr>
<tr>
<td>39.995G</td>
<td>Community Noise</td>
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<td>Elective</td>
<td>S2</td>
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<tr>
<td>39.994G</td>
<td>Graduate Project A (prerequisite 10 credit points)</td>
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<td>Compulsory</td>
<td>S3</td>
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<tr>
<td>39.996G</td>
<td>Graduate Project B (prerequisite 39.994G)</td>
<td>10</td>
<td>Compulsory</td>
<td>S4</td>
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<tr>
<td>39.997G</td>
<td>Auditorium Acoustics</td>
<td>3</td>
<td>Elective</td>
<td>S3</td>
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</table>
In addition to these subjects, a total of up to 8 credit points may be obtained by completing other subjects offered by the University of New South Wales, subject to the approval of the Head of Graduate School of the Built Environment.

Course Structure

The minimum duration of the course is two sessions of full-time study or four sessions of part-time study. The availability of the full-time and part-time programs of study will depend upon student demand and the University's resources at that time.

The course comprises 36 credit points, each credit point representing class contact of approximately 14 hours.

Full-time study normally requires an attendance of 18 hours per week while part-time study normally requires attendance of an average of 9 hours per week for the duration of the course.

Most of the work is done in the School, but approved practical experience forms an important component of the course. The program is so arranged that eminent visitors as well as guest lecturers may participate.

Normally, subjects are timetabled on one afternoon and evening, and one other evening each week. In addition to timetabled commitments, students may occasionally be required to attend for site visits and building inspections.

The requirements for this course include a period of at least eight weeks of approved practical experience.

Course Subject Areas

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Total Contact Hours</th>
<th>Credit Points</th>
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<tr>
<td>Contextual Studies</td>
<td>14</td>
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<tr>
<td>Architectural History</td>
<td>42</td>
<td>3</td>
</tr>
<tr>
<td>Conservation Management</td>
<td>42</td>
<td>3</td>
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<tr>
<td>Analysis and Documentation A</td>
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<td>6</td>
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<td>Conservation Technology B</td>
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<td>Conservation Technology C</td>
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<tr>
<td>Conservation Technology D</td>
<td></td>
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</tr>
<tr>
<td>Graduate Project</td>
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<td></td>
<td><strong>504</strong></td>
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Typical Pattern of Full-time Study

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<th>S1 Credits</th>
<th>S2 Hrs</th>
<th>S2 Credits</th>
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<td>39.102G</td>
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<td>3</td>
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<td>39.104G</td>
<td>Analysis and Documentation A</td>
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<td>2</td>
<td>28</td>
<td>2</td>
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<tr>
<td>39.105G</td>
<td>Analysis and Documentation B</td>
<td>70</td>
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<td>39.106G</td>
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<td>39.107G</td>
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<tr>
<td>39.108G</td>
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<td>4</td>
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<td>39.109G</td>
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<td>39.110G</td>
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Typical Pattern of Part-time Study

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<th>Credits</th>
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<td>39.102G</td>
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<tr>
<td>39.110G</td>
<td>Graduate Project</td>
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<table>
<thead>
<tr>
<th>S1</th>
<th>S2</th>
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</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>7</td>
<td>4</td>
<td>15</td>
</tr>
</tbody>
</table>

8145 Master of Industrial Design Course

Master of Industrial Design MID

8146 Master of Science (Industrial Design) Course

Master of Science (Industrial Design) MSc(IndDes)

These courses of graduate study have a common core of subjects in the major areas of industrial design. They are designed for graduates in industrial and environmental design, architecture, engineering, and marketing and business studies who wish to make careers in industrial design or to be involved in industrial design as part of their career activity, eg, mechanical engineering with industrial design.

The MID degree course is intended for holders of four year industrial design degrees who wish to specialize and develop expertise in particular areas of industrial design. In addition to the common core of subjects, MID degree students are also required to submit a major graduate project, a design theory report and have a greater choice of electives related to their field of specialization.

The MSc(IndDes) degree course is intended for graduates from design fields related to industrial design, such as architecture or engineering, or for graduates from non-design areas, such as marketing, who have satisfactorily completed preparatory studies. The course is designed to adapt and apply the students' existing design knowledge and experience to the methodology and practice of industrial design. The project work is less specialized and covers a broad range of industrial design problems. The students are required to submit a minor graduate project. There are additional compulsory subjects in this course, with a more restricted range of electives, closely related to industrial design.

Admission Requirements

The conditions governing registration as a candidate for the MSc(IndDes) degree course are given later in this handbook; see below under Conditions for the Award of Higher Degrees. In summary, admission is open to applicants who have been admitted to an appropriate degree of at least four years' full-time duration, or its equivalent. For the MID degree course, admission is restricted to applicants who have been admitted to a degree with a 'major' in industrial design of at least four years' full-time duration, or its equivalent. Candidates who have completed part or all of the requirements for the award of the degree of the MSc(IndDes) course may elect to apply for admission to the MID degree course, subject to the recommendation of the School and the approval of the Higher Degree Committee of the Faculty of Architecture.

In certain cases, particularly for applicants from non-design undergraduate courses, it is necessary to complete a qualifying program of preparatory units in industrial design, as prescribed by the Higher Degree Committee of the Faculty. These units are selected from appropriate undergraduate courses. The Committee's decision is influenced by the academic and professional experience of each applicant.

Course Structure

The minimum duration of both courses is two sessions of full-time study or four sessions of part-time study. The availability of the full-time and part-time programs of study depends upon student demand and the University's resources at that time.

The MID degree course comprises 38 credit points. The MSc(IndDes) degree course comprises 36-38 credit points. One credit point is normally equivalent to one hour per week for one session. Full-time study normally requires an attendance of approximately 18 hours per week, while part-time study normally requires approximately 9 hours per week for the duration of the course.

The project work for both degree courses, part and full-time, is run simultaneously and is staffed according to the requirements of each project.
Most of the work is undertaken within the School, but industrial visits and experience forms an important component of the course.

The program is so arranged that eminent visitors as well as guest lecturers and designers may participate.

To avoid duplication of classes for full-time and part-time students, subjects are timetabled wherever possible on afternoons and evenings. In addition to timetabled commitments, the studios and laboratories are available during normal University hours for industrial design project work. Occasionally students are required to attend professional and industrial visits and lectures at other institutions.

The requirements for the course include an equivalent period of at least four weeks of approved professional or industrial experience. Part-time students with approved employment are exempt from this requirement.

### Course Subjects

#### Common Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
<th>Usual Session Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.501G</td>
<td>Industrial Design Studies</td>
<td>2</td>
<td>S1 S2</td>
</tr>
<tr>
<td>39.511G</td>
<td>Ergonomics for Industrial Designers</td>
<td>2</td>
<td>S2</td>
</tr>
<tr>
<td>39.521G</td>
<td>Business Studies for Industrial Designers</td>
<td>2</td>
<td>S1</td>
</tr>
<tr>
<td>39.531G</td>
<td>Manufacturing Technology</td>
<td>2</td>
<td>S1</td>
</tr>
<tr>
<td>39.541G</td>
<td>Industrial Experience*</td>
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<td>*</td>
</tr>
<tr>
<td></td>
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</table>

**MID only**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
<th>Usual Session Offered</th>
</tr>
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<tbody>
<tr>
<td>39.502G</td>
<td>Graduate Project (MID)</td>
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<td>S1 S2</td>
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<tr>
<td>39.512G</td>
<td>Design Theory</td>
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<td>S1 S2</td>
</tr>
<tr>
<td>39.522G</td>
<td>Industrial Design</td>
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<td>S1</td>
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<td></td>
<td>Approved Electives**</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>28</td>
<td></td>
</tr>
</tbody>
</table>

\*4 week block during recesses. Part-time students in approved employment are exempt.

**Approved electives may be taken from subjects offered in other schools of the University of New South Wales, subject to the approval of the Heads of the School of the Built Environment and the school offering the subject. MID electives may be chosen to increase specialist knowledge relevant to the students' theory studies, project report or planned career activities. At least six credits must be taken of which up to four credits may be in undergraduate units at half their point value.

MSc(IndDes) electives are taken in approved subjects directly related to the development of the students' industrial design knowledge and skill. At least four credits must be taken of which up to two credits may be in undergraduate units at half their point value.

***Graduates of visually orientated courses, eg architecture, are normally exempt.

The School proposes electives in the areas of design ideologies, history of artefact design, product analysis, health and rehabilitation design, ethno-technology and ceramics. These are run depending upon student demand, course requirements and Faculty resources.

Depending upon course requirements, the availability of University staff and Faculty resources, it may be possible to substitute some existing graduate or undergraduate courses in other faculties for certain subjects of the course. This development would be subject to the approval of the Higher Degree Committee of the Faculty of Architecture and the Heads of the schools offering the courses.

### Typical Full-time Study Patterns for MID and MSc(IndDes)

**Common Core**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Hours per week</th>
<th>S1</th>
<th>S2</th>
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</thead>
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<td>Industrial Design Studies</td>
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<td>39.511G</td>
<td>Ergonomics for Industrial Designers</td>
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</tr>
<tr>
<td>39.521G</td>
<td>Business Studies for Industrial Designers</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>39.531G</td>
<td>Manufacturing Technology</td>
<td>2</td>
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</tr>
<tr>
<td>39.541G</td>
<td>Industrial Experience*</td>
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**MID only**

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Hours per week</th>
<th>S1</th>
<th>S2</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.502G</td>
<td>Graduate Project (MID)</td>
<td>3**</td>
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</tr>
<tr>
<td>39.512G</td>
<td>Design Theory</td>
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<td>3</td>
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</tr>
<tr>
<td>39.522G</td>
<td>Industrial Design</td>
<td>4</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Approved Electives**</td>
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Ten hours per week MID
Graduate Study

MSc(IndDes) only

<table>
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<th>Code</th>
<th>Course</th>
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<tr>
<td>39.503G</td>
<td>Design Media and Communication</td>
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</tr>
<tr>
<td>39.513G</td>
<td>Visual Thinking**</td>
<td>2</td>
</tr>
<tr>
<td>39.523G</td>
<td>Industrial Design A</td>
<td>6</td>
</tr>
<tr>
<td>39.533G</td>
<td>Industrial Design B</td>
<td>4</td>
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<tr>
<td>39.543G</td>
<td>Graduate Project (MSc(IndDes))</td>
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<tr>
<td></td>
<td>Approved Electives</td>
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</tbody>
</table>

Total Hours per week MSc(IndDes) 17 20

* A four week period during the recess. Part-time students in approved employment are normally exempt.
** Nominal hours.
*** Graduates of visually orientated courses, eg architecture, are normally exempt.

Typical Part-time Study Patterns for MID and MSc(IndDes)

<table>
<thead>
<tr>
<th>Common Core</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S1</td>
</tr>
<tr>
<td>39.501G</td>
<td>1</td>
</tr>
<tr>
<td>39.511G</td>
<td></td>
</tr>
<tr>
<td>39.521G</td>
<td></td>
</tr>
<tr>
<td>39.531G</td>
<td>2</td>
</tr>
<tr>
<td>39.541G</td>
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</tr>
</tbody>
</table>

MID only

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.502G</td>
<td>Graduate Project (MID)</td>
<td>3**</td>
</tr>
<tr>
<td>39.512G</td>
<td>Design Theory</td>
<td>2</td>
</tr>
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<td>39.522G</td>
<td>Industrial Design</td>
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<td></td>
<td>Approved Electives</td>
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Total hours per week MID 7 10 10 10

MSc(IndDes) only

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.503G</td>
<td>Design Media and Communication</td>
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</tr>
<tr>
<td>39.513G</td>
<td>Visual Thinking***</td>
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</tr>
<tr>
<td>39.523G</td>
<td>Industrial Design A</td>
<td>6</td>
</tr>
<tr>
<td>39.533G</td>
<td>Industrial Design B</td>
<td>6</td>
</tr>
<tr>
<td>39.543G</td>
<td>Graduate Project (MSc(IndDes))</td>
<td>8**</td>
</tr>
<tr>
<td></td>
<td>Approved Electives</td>
<td>1</td>
</tr>
</tbody>
</table>

Total hours per week MSc(IndDes) 8 10 9 9

* A four week period during the recess. Part-time students in approved employment are normally exempt.
** Nominal hours.
*** Graduates of visually orientated courses, eg architecture, are normally exempt.

School of Architecture

The School of Architecture offers facilities for research and welcomes enquiries from students who wish to pursue programs for the degrees of Master of Architecture (MArch) or Doctor of Philosophy (PhD). Prospective students should consult the Head of School to discuss their research interests prior to making a formal application.

1130
Doctor of Philosophy

Doctor of Philosophy
PhD

This is a research degree requiring an original and significant contribution to knowledge in an approved subject.
2200
Master of Architecture

Master of Architecture
MArch

This degree is available to part-time and external candidates in addition to full-time candidates. It requires the submission of a thesis embodying the results of an original investigation or design.

8140
Master of Architectural Design Course

Master of Architectural Design
MArchDes

The course is centred on the essential architectural activity, the conceptual design-synthesis of buildings to masterly accomplishment.

It aims at an embracing and thorough synthesis of all relevant influences arising from the inanimate (physical) and animate (human) context into which the building is to be placed. These subjects establish the nature of the course as a whole: they involve theory, research and studio practice crystallized into a project which is assessed at the conclusion of each semester.

The central project is supported by elective subjects.

Admission Requirements

The general conditions governing registration as a candidate for the degree of Master of Architectural Design are given later in this handbook but the attention of intending applicants is directed to the following specific requirements:

1. The standard of admission is the BArch degree at Honours level of the University of New South Wales or any other approved university followed by at least one year of professional practice.

2. Graduates with a BArch degree at Pass level may be admitted only on the recommendation of the Head of School and the confirmation of the Faculty.

3. In special circumstances a person may be permitted to register as a candidate for the degree if evidence is submitted of such academic and professional attainments as may be approved by the Faculty on the recommendation of its Higher Degree Committee.

4. Admission is selective for the places available based on the academic record of applicants and the quality and extent of their professional practice.

Course Structure

The course is structured on a two-semester credit-point system. It is offered in two full-time semesters — (each one of a duration of 14 weeks), to be taken either in a single academic year or in two consecutive academic years — the first semester's work in the first session of Year 1, the second semester's work in the second session of Year 2.

Full-time study is the normal pattern for this type of course; however, in particular circumstances the first full-time semester may be replaced by two part-time semesters with the approval of the Head of School.

Each semester's work is equivalent to a minimum of 15 credit points totalling to a minimum of 30 credits for the award of the degree. Each credit point is approximately equivalent to 1 hour/week/semester attendance of the course.

Each student's program is to consist of the compulsory core subject equivalent to 67 per cent of the total credit points in the course, and of a selection of elective subjects equivalent to the other 33 per cent.

Course Program

<table>
<thead>
<tr>
<th>Course Program</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural Synthesis 1 and 2 (core)</td>
<td>9 11</td>
</tr>
<tr>
<td>Electives</td>
<td>6 4</td>
</tr>
<tr>
<td>Course Award</td>
<td>30</td>
</tr>
</tbody>
</table>

Core Subjects

11.901G Architectural Synthesis 1 9
11.902G Architectural Synthesis 2 11

Electives

11.930G Architectural Theory 2
11.931G Ideologies of Modern Architecture 2
11.932G Architectural Impact Studies 2
11.933G Cultural Influences in Civic Design 2
11.934G Structural and Architectural Space 2
11.935G Design for Industrialized Buildings 2
11.936G Resources for Buildings 2
35.296G Construction Techniques 3
35.297G Developments in Building Materials 2
35.426G Building Services 3
35.390G Co-ordination of Structures and Services 2
35.360G Computer Techniques and Applications 3
35.361G Computer Techniques and Applications 2
35.355G Computer Graphics 2
35.381G Building Physics 2
35.382G Building Psychophysics 2
35.330G Cost Planning and Analysis 2
35.460G Applied Building Economics 2
35.470G Analysis and Valuation of Property 2
36.924G Urban Sociology 2
39.997G Auditorium Acoustics 3

Subject to approval of the appropriate Head of School and the Head of School of Architecture, students may enrol in other graduate subjects offered by the Faculty: subject to the same conditions, students may also enrol in undergraduate subjects offered in the University but only to the maximum contributing total of 4 credit units calculated at half their value as an undergraduate subject.
Graduate Study

2206
Master of Science (by Research)
Master of Science
MSc

The conditions governing the award of the degree of Master of Science by research are set out in the next section.

School of Building

The School of Building has an active program of research and welcomes enquiries from students who wish to pursue programs for the degrees of Master of Building (MBuild) or Doctor of Philosophy (PhD). Graduates enrolled in these courses need not necessarily be building graduates. Prospective students should consult the Head of School to discuss their research interests prior to making a formal application.

The School also offers each year a series of short non-credit mid-career courses* which are designed to provide practical on-going education for experienced members of the building industry.

*For further information, contact Mr M. Marosszeky, Continuing Education Co-ordinator in the School of Building

1140
Doctor of Philosophy
Doctor of Philosophy
PhD

This is a research degree requiring an original and significant contribution to knowledge in an approved subject.

2210
Master of Building
Master of Building
MBuild

This degree is available to part-time and external candidates in addition to full-time students. It requires the submission of a thesis embodying the results of an original investigation or design relative to building.

8110
Master of Science (Building) Course
Master of Science (Building)
MSc(Building)

Course Co-ordinator
Dr J. M. Hutcheson

This four-session course has been designed to provide opportunities for advanced study in management, economics, construction and building science. It allows a certain amount of specialization in four interrelated areas:

1. Planning and management aspects of a design or construction organization, including programming, evaluation, costing, performance feedback, feasibility and the valuation and management of properties.

2. Operations and control aspects of a design or construction organization, concentrating on estimating and cost analysis, contract or design administration and construction techniques.

3. Problems concerned with thermal conditions, illumination, noise, humidity and air purity; the interrelation of the building envelope and structure with the services and the performance of the building as a whole.

4. Development and research aspects of construction with relevance to design, construction, product manufacture or research.

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

Admission Requirements

The general conditions governing registration as a candidate for the degree Master of Science (Building) are given later in this handbook but the attention of intending applicants is directed to the following specific requirements:

1. Applicants will have been admitted to the degree of Bachelor of Architecture or Bachelor of Building in the University of New South Wales or an equivalent degree in another approved university.

2. Graduates with a Bachelor of Engineering who have worked in the building industry may be admitted to the preparatory year or to the course proper depending on the individual case.

3. BSc(Arch) and BSc(DesStudies) graduates are required to complete a program of preparatory subjects set out by the Higher Degree Committee of the Faculty of Architecture.

4. Eligible applicants other than those under 1., 2. & 3. may be required to complete a program of preparatory subjects set out by the Higher Degree Committee of the Faculty of Architecture, whose decision will be influenced by the education and experience of each applicant.

Graduate experience and involvement in the building industry is considered an advantage in the selection of candidates.
Course Structure

The Master of Science (Building) is a formal four semester part-time degree course comprising 39 credit points. Each credit point consists of class contact of one hour for one semester, except for the Project Report which is rated at 10 credit points.

The subject program comprises studies in computations, environmental requirements, building economics, operations planning, contract law and documentation and the interaction of the architecture, the structure and the services.

The Project Report is compulsory and students must be enrolled in this subject in all sessions of the course. All other subjects are electives. Students may choose elective subjects from the list below to make up a minimum of 39 credit points including a Project Report of 10 credit points.

Subject to the approval of the appropriate Head of School, students may enrol in graduate subjects in other schools and faculties of the University to a maximum contributing total of 9 credit points.

With the approval of the Head of the School of Building, students may also enrol in undergraduate subjects. Undergraduate subjects are counted at half credit points to a maximum contributing total of 9 credit points. Qualifying or preparatory subjects cannot contribute towards the total.

Course Program

Subjects are offered on a four-semester cycle, but when there is sufficient demand, they may be offered more often. While the intention is to offer as many subjects as possible, the full range may not be offered in any one year. A subject may not be offered if enrolment in that subject is less than eight students. Subjects are normally timetabled on four evenings per week.

Management Studies

<table>
<thead>
<tr>
<th>Credit Points per Semester</th>
<th>Even Yrs</th>
<th>Odd Yrs</th>
<th>S1</th>
<th>S2</th>
<th>S3</th>
<th>S4</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.212G Pre-Construction Management</td>
<td>2</td>
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<td></td>
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</tr>
<tr>
<td>35.213G Building Contract Management</td>
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<td>2</td>
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<td></td>
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</tr>
<tr>
<td>35.254G Personnel Management</td>
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<tr>
<td>35.275G Property Management</td>
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<tr>
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<td>35.277G Operations Planning Techniques</td>
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Construction and Building Services

<table>
<thead>
<tr>
<th>Credit Points per Semester</th>
<th>Even Yrs</th>
<th>Odd Yrs</th>
<th>S1</th>
<th>S2</th>
<th>S3</th>
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<tr>
<td>35.296G Construction Techniques</td>
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<td>35.297G Developments in Building Materials</td>
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Building Science and Computations

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<tr>
<th>Credit Points per Semester</th>
<th>Even Yrs</th>
<th>Odd Yrs</th>
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<th>S2</th>
<th>S3</th>
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<td>35.360G Computer Techniques and Applications 1</td>
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<td>35.361G Computer Techniques and Applications 2</td>
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</table>

School of Landscape Architecture

1160 Doctor of Philosophy

Doctor of Philosophy
PhD

This is a research degree requiring an original and significant contribution to knowledge in an approved subject.

2220 Master of Landscape Architecture

Master of Landscape Architecture
MLArch

This degree is available to part-time and external candidates in addition to full-time candidates. It requires the submission of a thesis embodying the results of an original investigation or design.
School of Town Planning

1150
Doctor of Philosophy

Doctor of Philosophy
PhD

This is a research degree requiring an original and significant contribution to knowledge in an approved subject.

2230
Master of Town Planning (by Research)

Master of Town Planning
MTP

The Master of Town Planning degree is a research degree awarded on the basis of a thesis embodying the results of an original investigation. The research is to be undertaken over four sessions, but the period may be reduced in certain circumstances. The conditions governing the award of the degree are set out later in this Handbook.

Professional Recognition

The degree 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.

Course Work

Candidates with a primary degree in a subject other than that of town planning may be required to complete an additional program of study. The actual program is determined by the Higher Degree Committee of the Faculty of Architecture on the recommendation of the Head of the School of Town Planning. Candidates should contact the Head of the School about the guidelines used in formulating such a program.

Admission Requirements

An applicant for admission to the Housing and Neighbourhood Planning course shall be:

1. a graduate in Architecture of the University of New South Wales; or
2. a person with such other qualifications as may be approved by Faculty.

Part-time

Year 1

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<td>36.930G Theory of Neighbourhood Planning 1</td>
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<td>36.931G Theory of Neighbourhood Planning 2</td>
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<td>36.940G Practice of Neighbourhood Planning 1</td>
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<td>36.941G Practice of Neighbourhood Planning 2</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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<td>36.943G Practice of Neighbourhood Planning 4</td>
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<td>36.922G Communications and Public Utilities</td>
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<td>36.925G Housing Law and Administration</td>
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†This course is under review, and intending applicants are advised to contact the School at the first opportunity to obtain further information.

5200
Housing and Neighbourhood Planning Graduate Diploma Course†

Graduate Diploma
GradDip

This course provides for graduate 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.
Subject Descriptions

Identification of Subjects by Number

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

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

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

1. The authority offering the subject, normally a School of the University, is indicated by the number before the decimal point.

2. Each subject number is unique and is not used for more than one subject title.

3. Subject numbers which have previously been used are not used for new subject titles.

4. Graduate subjects are indicated by a suffix 'G' to a number with three digits after the decimal point. In other subjects three or four digits are used after the decimal point.

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

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

Servicing Subjects are those taught by a school or department outside its own faculty. Their subject descriptions are published in the handbook of the faculty which originates the subject and are also published in the handbook of the Faculty in which the subject is taught.

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

HSC Exam Prerequisites

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

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

Information Key

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

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

1.927G Acoustic Theory  S1 L1½T½

2 credit points.

Sources of acoustic radiation: simple, dipole, quadrupole, plane, impulsive 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.

Architecture

11.901G Architectural Synthesis 1  C9

11.902G Architectural Synthesis 2  C11

Theory, research and studio practice, in the form of graduate projects, applied to general architectural themes of high priority in the contemporary context. After thorough theoretical foundation and research analysis the theme is adapted to a specific and concrete situation to achieve an architectural synthesis of all relevant influences arising from the physical and human context.

11.930G Architectural Theory  C2

A general and theoretical approach to synthesis in art and architecture considering sensible and intelligible influences in the context of history and of the present age.

11.931G Ideologies of Modern Architecture  C2

A critical and analytical review of the ideologies affecting the developments of and finding expression in the various phases of modern architecture from its beginnings to our present day.

11.932G Architectural Impact Studies  C2

Examination of a number of selected buildings in the historical and in the contemporary milieu regarding their impact upon the animate and inanimate context of which they become an organic part. Cultural context: purpose and meaning of the building, its mode of expression, and effect upon the cultural existing pattern. Communication context: the effect of the building upon communication and exchange of experience and goods. Urban context: character, style, shape, proportion material and colour of the building and its effect upon the urban scene. Microclimatic context: the effect of the building upon sunshade patterns, wind, heat, noise, air, etc. Resource context: the effect of the building upon the material manpower, energy resources of the community and its overall economical effect.

11.933G Cultural Influences in Civic Design  C2

An integrated examination of spiritual, mental (psychological, social, political, legislative, administrative) technological, economical, geographical and climatic influences affecting the character, grouping and relationships of buildings on a civic scale. Case studies in the historical and in the contemporary context.

11.934G Structure and Architectural Space  C2

The qualitative role of structural systems in the determination of architectural mass and space. The structure affecting architectural unity, rhythm, variation, etc. The influence of loading patterns and material properties on structural shapes. Structural exhibitionism. Morphological studies of structural systems in nature. The geometrical order of structures. Studies of structural systems in historical and contemporary context with a special emphasis on their effect on architectural space. The design of structural systems for spatial articulation.

11.935G Design for Industrialized Building  C2

Methods of industrialization in the field of building, considered from the general and simple to the specific and complex. Equipment and capital investment needed for equipment, problems of economical return. Standardization and flexibility. Component design in homogeneous and heterogeneous materials for simple and complex applications. Design principles for industrialization. Psychological aspects of acceptance: repetition, monotony and rigidity compared to variation, rhythm and flexibility.

11.936G Resources for Buildings  C2

Sources of information on material, technological manpower and energy resources for building on a regional, national and global scale. Assessment of resources of a given regional and national economy. Infrastructure. Pattern of change and future forecasts. The energy-equivalents of processed building materials; of placed building components, of servicing methods. The energy equivalence and prime cost. Recycling of building components. Energy and resource conservation on a short and long-term basis. The problems of energy and conservation and resource-recovery in a given system.

Building

35.212G Pre-Construction Management  L2 C2

Prerequisite: Nil.

Changing roles and responsibilities; the integration of construction skills with design as a pre-contract input; the costs and benefits of such an approach; user-owner brief; total project planning, administration of contracts, progressive design input and as executed drawings.
35.213G Building Contract Management  L2 C2
Prerequisite: Nil.
Contract administration, sub-contractors, relationship and communications during construction and commissioning, case studies, analysis of areas of dispute between parties.

35.232G Systems Modelling  L2 C2
Prerequisite: Nil.
Systems concepts and modeling. Applications, including the location, planning and design of buildings, and the relevance of urban energy usage to the siting of buildings. Analytical tools used in systems analysis and their application to building decision problems. Systems design allowing for non-quantifiable factors and multiple objectives. Decision theory and risk analysis.

35.242G Project Report (Compulsory) S1 and S2 L1 C10
Prerequisite: Nil.
Each student is registered for the Project Report throughout his or her course. Semesters 1 & 2: Survey of the project area, preliminary submission containing an outline of the project. Semesters 3 & 4: consultations, group discussions and seminars on the project topics; preparation of a project report.

35.254G Personnel Management  L3 C3
Prerequisite: Nil.
Management of design and construction of personnel, motivation and personnel theory; selection and development, industrial psychology. industrial relations.

35.275G Property Management L2 C2
Prerequisite: Nil.
Designing for better property management, maintenance, plant and equipment selection, economic, technical and tax trade-offs, obsolescence, material selection, development proposals.

32.276G Construction Planning  L2 C2
Prerequisite: 35.277G.
The application of planning theory to the construction phase of major building projects. The planning process, strategic planning, planning and control of on- and off-site activities. Detailed planning of repetitive work, materials handling and building services. A major case study is followed throughout the subject.

35.296G Construction Techniques  L3 C3
Prerequisite: 35.505 or equivalent.
Techniques for the demolition of existing buildings and the excavation for and construction of new buildings. Determinants such as new techniques, industry cost structure, materials handling equipment and transportation costs and their effect on construction techniques. A study of recent methods through case studies undertaken. Rehabilitation of existing buildings.

35.297G Developments in Building Materials  L2 C2
Prerequisite: Nil.
Current developments in the application of building materials. Technical developments and innovations affecting the utilization of building materials, case studies of recent design and applications.

35.330G Cost Planning and Analysis  L2
Prerequisite: Nil.
Cost planning history, definitions, processes and applications: survey of world usage; the viewpoints of the Architect, the Manager, the Cost Planner and the Services Engineer; case studies; seminars.

35.355G Computer Graphics  L2 C2
Prerequisite: 35.360G.
Introduction to computer graphics and graphics devices: drum and flatbed plotters; electrostatic printer/plotters; storage tube and refresh tube graphic displays; digitizers. Use of software and application packages in the following areas: building plans, perspectives, shadows, land form, quantity surveying, networks, etc.

35.360G Computer Techniques and Applications 1 L3 C3
Prerequisite: 35.360G.
Further development of computing concepts. Completion of the Fortran language. Assignments in some of the following areas: scheduling; structural design; services; statistics; data reduction; information systems.

35.361G Computer Techniques and Applications 2  L2 C2
Prerequisite: 35.360G.
Further development of computing concepts. Completion of the Fortran language. Assignments in some of the following areas: scheduling; operations planning; structures; statistics; simulation; linear programming.
35.370G Experimental Techniques  
Prerequisite: Nil.

Purposes of and methods used in building research, experimentation and testing. Design of experiments, method of dimensions and principles of similarity. Analysis of experimental results; regression techniques. Experimental techniques used in building science, and in assessing building materials and mechanical equipment. Methods used in socio-economic analysis; factor and component analysis. Design of subjective experiments and questionnaires.

35.381G Building Physics  
Prerequisite: Nil.

Thermal balance and energy conservation in buildings. Utilization of solar energy for heating and cooling. Effect of building components, materials and services on the internal environment; effect of walls, floors and fenestration.

35.382G Building Psychophysics  
Prerequisite: Nil.

Psychophysical analysis of parameters affecting comfort; the visual acoustical and thermal environment; human engineering.

35.390G Co-ordination of Structures and Services  
Prerequisite: 35.426G.

A qualitative study of structural systems and their interaction with services. Integration of services and structure. Case studies of special integrated solutions, with particular reference to prefabrication and industrialized solutions, with particular reference to prefabrication and industrialized building. Co-ordination of services.

35.400G Economics of Services  
Prerequisite: Nil.

Costs in use: initial costs; running and maintenance costs; effect of interest rates and inflation; statistics. Maintenance methods and costs; methods of approach and analysis; planned maintenance; repair and renewal. Evaluation methods for building cost appraisal. Cost benefit analyses.

35.426G Building Services  
Prerequisite: Nil.

A study of thermal, electrical, hydraulic and mechanical services in buildings with regard to flexibility, space usage, long-term efficiency, design life and economy.

35.460G Applied Building Economics  
Prerequisite: Nil.

The interrelationship between the national economy and the building industry; entrepreneurship in the building industry; small-business economics in the building industry; the economics of conventional and industrialized buildings; financial management of building contracts; economics of property development. Life cycle costs of buildings.

35.470G Analysis and Valuation of Property  
Prerequisite: Nil.

Buildings as an investment: Site value and selection; optimum site development; assessment of depreciation. Feasibility assessment, including renovation or demolition decision. Amortization of depreciating assets. Economic analysis of hypothetical development of sites. Valuation reports including case studies of building investment projects.

35.480G Managerial Economics in Building  
Prerequisite: 35.460G.

Advanced techniques of pragmatic concern to the building economist: techniques, problems and model derivation; decision theory; planning of production, labour and inventories, design of decision systems; dynamic programming; sensitivity analysis; integrated models of the firm, econometric models of the economy. Marketing.

Town Planning

36.934G Introduction to Planning (G)  SS L3

Structure of towns, cities and regions. Needs and activities of people. Land use, transport and service systems. Planning theories, aims and objectives. Planning at different scales and in different time frames. Planning as a process. Planning studies, information systems, statistics, research methodology, computer applications.

36.935G Local Planning 1 (G)  SS L3

Theories at the local level: neighbourhood and precinct concepts, local community structure, survey and analysis. Subdivision and housing layout, basic transportation planning and management, street design, landscaping, utilities. Practice of planning new neighbourhoods and proposals for conservation and redevelopment.

36.936G Local Planning 2 (G)  SS L3


36.937G Regional Planning 1 (G)  SS L3

Theories at the metropolitan level. Accessibility, equity, economics, politics. Structure and organization, land use and transportation relationships. Forecasting, alternative futures, incremental decision making. Integrating local and metropolitan planning.
36.938G Regional Planning 2 (G) SS L3

36.939G Law and Administration Planning (G) SS L3

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.

36.923G Land and Housing Economics

36.924G Urban Sociology
A sociological approach to the study of urban phenomena. Lectures deal with both methodological and theoretical issues relating to the study of urban social structures. Seminars provide students with the opportunity to examine critically a number of community studies. A research project is undertaken by each student.

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.

36.930G Theory of Neighbourhood Planning 1
36.931G Theory of Neighbourhood Planning 2
The neighbourhood concept: its historical evolution and development. The contributions of Ebenezer Howard, Unwin and Parker, Clarence Perry, Stein and Wright and others. Neighbourhood structure, elements and form. Relationship to town and metropolitan planning.

36.940G Practice of Neighbourhood Planning 1
36.941G Practice of Neighbourhood Planning 2
36.942G Practice of Neighbourhood Planning 3
36.943G Practice of Neighbourhood Planning 4

36.945G The Organization of Town Planning
Aims, means and consequences of town planning in Australia. Aims of planning: organization of the environment in respect of space and time, interrelationship of functions, equity of resource distribution, human satisfaction, the nature of the planning approach. Means of planning: overview of the planning process, laws related to planning, planning assessment procedures, environmental management at different levels, decision-making processes — financiers', firms' and private decisions, changes in public values, public participation, political and economic constraints. Consequences of planning: illustrative case studies, evaluation of planning methodology and procedures.

Graduate School of the Built Environment

Not all graduate course subjects are necessarily offered in any one year:

39.101G Contextual Studies S1
The scope and international context of conservation. History, concepts and philosophies of the discipline. Definition of conservation processes, including preservation, restoration, rehabilitation, reconstruction, alteration, repair, adaptation and reuse, infill, urban conservation. Conservation as a heritage consideration, including the criteria for selecting, listing and classifying structures; as a non-heritage consideration, including aspects of economics and construction; and as a planning, landscape and townscape consideration. The current legal framework. Government, semi-government and community conservation organizations and their roles.

39.102G Architectural History S1
The rationale, investigation and interpretation of architectural history. The cause-and-effect relationships, particularly social, underlying architecture. Influences upon Australia from other countries. Detailed studies of selected aspects of architectural and building history, mainly Australian. Traditional technology. Development of technology and the manifestation of style. Histories of selected building types, methods, materials and finishes.
39.103G Conservation Management S2

39.104G Analysis and Documentation A S1

39.105G Analysis and Documentation B S2
Preparation of documentary studies: measurement, photography, reportage. Photogrammetry and its applications.

39.106G Conservation Technology A S1
The integrity of old buildings and their environments, including planning, landscape and architectural considerations. Effects of acts and ordinances.

39.107G Conservation Technology B S2
Identification, understanding and diagnosis of deterioration in traditional structure, construction, decoration and building environments. Development of general techniques for preservation, restoration, reconstruction and adaptation. Comfort criteria and other functional considerations.

39.108G Conservation Technology C S1
Prerequisite: 39.107G.
Policies and techniques appropriate to preservation, restoration, reconstruction and adaptation of heritage structures. Integration of new services and functions. Case studies.

39.109G Conservation Technology D S2
Prerequisite: 39.107G.
Policies and techniques appropriate to adaptive reuse and other treatments of non-heritage structures. Integration of new services and functions. Case studies.

39.110G Graduate Project F
An appropriate conservation topic from any apposite area, including such fields and historical archaeology, documentation, legislation, economics, technology, or a specific building restoration project. Conditions governing submission of the Project Report appear in the Calendar.

39.301G New Development Studies S1 T2
Seminar group study in new ideas, activities and resources which affect the future development of research, education and practice in the man-made environment.

39.302G Research Studies S1 T2
Research viewed within a framework of priorities, policies and interdependencies including case studies, resources, methodology and the preparation of research proposals.

39.303G Directed Studies S1 T2
The conduct and report of findings of a short research project in the area of the student's concentration designed to meet the individual's needs and interests and supportive to the major research topic.

39.501G Industrial Design Studies F
Prerequisite: Nil.

1. The objectives and methods of graduate study in industrial design: contemporary industrial design trends, the relationship between academic and practice objectives, the relationship between academic and practice objectives, the relationship between industrial design methodology and research techniques to those of other disciplines at the University. 2. A diverse range of current professional and theoretical interests, design and design related activities in Australia and overseas, current ideologies and historical assessments. Seminars are given by students, theorists, and practitioners in design and design related areas.

39.502G Graduate Project (MID) F
Co-requisite: 39.522G.
A project within the practice areas of industrial design, selected by the student subject to the approval of the School; conducted within an approved methodology. Documentation of the methodology, research strategy and techniques, monitoring of the design process, resultant design, and evaluation of the methodology, research and final design. Students should give consideration to the School's specialist areas.

39.503G Design Media and Communication S1
Prerequisite: Nil.
The major two and three dimensional media and computer techniques are analysed and demonstrated within the context of industrial design problem solving: orthographic techniques, the Australian Engineering Drawing Standard, graphic art processes, photography, current rendering and illustration techniques, modelling in automotive clay, plastic sheet and rigid foams, timbers and metals. The current state of computer aided design as well as its potential in design and the restructuring of engineering decision-making and drafting. Particular emphasis given to each method's role in problem analysis and communication at the concept, detail and final design stages. The social and physiological aspects of communicating design in industry are also examined.

39.511G Ergonomics for Industrial Designers S2
Prerequisite: Nil.
Objectives, methodology and research techniques of ergonomics. Man/machine, interaction, human perception and performance, anthropometrics, product evaluation, the establishment of ergonomic parameters in product design and the application of ergonomics in design, the interrelationship of ergonomics and industrial design in the product development process. Students carry out laboratory experiments related to project work and also contribute to the development of a data bank.
39.512G Design Theory

Prerequisite: 39.501G.

Research into a theory aspect of industrial design, selected by the student subject to the approval of the School, in the general area of design and design related studies. Students should give consideration to the School's specialist areas. The study may be taken in product design but should not be directly linked to studio project work being undertaken by the student.

39.513G Visual Thinking

Prerequisite: Nil.

Visual language, media, problems and problem solving methods. The relationship between visual thinking and creative processes. Studies are undertaken in two and three dimensions and are developed within the context of art and design.

39.521G Business Studies for Industrial Designers

Prerequisite: Nil.

The theory and practice of business and industrial management, and marketing. Its application in the product development process and the relation of the process to other business and industrial objectives. Special reference to the Australian industrial context and potential developments resulting from technological and socio-economic change. Professional practice and the management of design organizations in the general context of business and industrial management.

39.522G Industrial Design

Co-requisite: 39.501G.

Industrial design project work intended to integrate the students' previous experience and the course units in preparatory work for the Graduate Project. A part of the course may be undertaken on a group basis.

39.523G Industrial Design A

Co-requisite: 39.501G.

Project work designed to introduce industrial design research and studio methodologies. Studies undertaken within a broad range of product areas and related to the concurrent course work.

39.531G Manufacturing Technology

Prerequisite: Nil.

Industrial processes and materials, production costing and changing production economics. Objectives and structures of the engineering professions and their integration with industrial design in the product development process. Students assist in the development of a data bank.

39.533G Industrial Design B

Co-requisite: 39.523G.

Advanced project work combining the research and practice methodologies of industrial design in product research, development and design, preparatory to undertaking the Graduate Project.

39.541G Industrial Experience

Prerequisite: Enrolment in one of the degrees.

A four week period of approved industrial experience undertaken by full-time students in the mid-year recess and by part-time students in either the mid-year or summer recess. The period is intended to give students first hand interaction with industrial and commercial operations. Normally students are expected to be involved in design activities, however involvement in production, engineering, management and marketing is also considered. Part-time students in approved employment are exempt.

39.543G Graduate Project (MSc(IndDes))

Co-requisite: 39.533G.

A project within the practice areas of industrial design, proposed by the student in consultation with the School and conducted within an approved methodology; documentation of the methodology; research strategy and techniques, monitoring of the design process, resultant design, and evaluation of the methodology, research and design.

39.651G Mechanical Shock and Vibration

Prerequisite: Nil.

Vibrating systems, strings, rods, beams; plates, shells; radiation characteristics of noise sources; random vibration; structures; fatigue; filters, isolators, attenuators, dampers; impedance.

39.652G Noise Control in Industry

Prerequisite: Nil.

Hearing conservation and community noise; standards and regulations; industrial noise sources; mechanical noise, electrical machinery; aerodynamic noise, jets, ventilation system noise; combustion noise, vibration; noise-reduction techniques: transmission and insertion loss; absorbers; impedance mismatch, vibration isolation; enclosures, barriers; room acoustics; practical measurement of sound power; sound pressure and directivity.

39.901G Acoustic Measuring Systems and Electroacoustics

Prerequisite: Nil.

Transducers; microphones; amplifiers; loudspeakers; filters, recorders, pick-ups, noise generators, acoustic measuring instruments. Sound reinforcement systems; ambiophony; assisted resonance. Special requirements for translation, language laboratories.
39.902G Advanced Physical Acoustics  
**Prerequisite:** Nil.

Vibrating systems: coupled oscillators, beams, membranes, plates, resonators, acoustic filters, analogs, analogue 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, sonic and ultrasonic measurement techniques, relation to properties of materials.

39.993G The Ear, Hearing and Hearing Conservation  
**Prerequisite:** Nil.

Physiological and psychoacoustic factors in sound perception; discrimination, masking; loudness and annoyance; subjective scales and units; hearing threshold shift; damage risk criteria; hearing conservation programs and audiometry; standards and regulations.

39.994G Graduate Project A  
**Prerequisite:** 10 credit points.

An individual research project on an approved topic in acoustics; preliminary report.

39.995G Community Noise  
**Prerequisite:** Nil.

Sources of community noise; sound propagation out of doors; barrier theory; road, rail and air transportation noise; land-use zoning; measurement and assessment of community noise annoyance; standards, acts and regulations.

39.996G Graduate Project B  
**Prerequisite:** 39.994G.

An individual research project on an approved topic in acoustics; final report.

39.997G Auditorium Acoustics  
**Prerequisite:** Nil.

Subjective and objective criteria for speech and music; speech intelligibility; characteristics of musical sources; reverberation theory, diffusion; steady-state and transient room response; design methods including graphical and model analysis; sound reflectors; sound absorbents.

39.998G Noise Control in Buildings  
**Prerequisite:** Nil.

Airborne and impact sound transmission theory and measurement; vibration isolation; single, multiple-leaf and composite partitions; ventilation, plumbing and services noise control; criteria; regulations and standards.

**Servicing Subject**

Servicing subjects are those taught within courses offered by other faculties.

For further information regarding the following subject see the Applied Science Handbook.

39.908G Community Noise Control  
**Prerequisite:** Nil.

Introduction; sound and sound propagation; sound power, sound pressure, decibels; sound perception, psychoacoustics; loudness, annoyance, phons and dB(A); hearing conservation; acoustic measuring and analysing instruments — sound level meters, filters, analysers, recorders, sound sources; community noise assessment; the NSW Noise Control Act; practical exercises in sound recording, analysis and assessment; noise control — source noise reduction, use of barriers, enclosures, distance, sound absorbing materials; sound transmission through building elements; noise components of environmental impact statements.
Graduate Study

Conditions for the Award of Higher Degrees

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

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

The following is the list of higher degrees and graduate diplomas of the University, together with the publication in which the conditions for the award appear.

For the list of graduate degrees by research and course work, arranged in faculty order, see Disciplines of the University: Table of Courses (by faculty): Graduate Study in the Calendar.

For the statements Preparation and Submission of Project Reports and Theses for Higher Degrees and Policy with respect to the Use of Higher Degree Theses see the Calendar.

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1. The degree of Doctor of Philosophy may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty or board (hereinafter referred to as the Committee) to a candidate who has made an original and significant contribution to knowledge.

2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor with Honours from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

   (2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

   (3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment as a candidate for the degree.

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.

   (2) In every case, before permitting a candidate to enrol, the head of the school* in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available.

   (3) An approved candidate shall be enrolled in one of the following categories:

   (a) full-time attendance at the University;

   (b) part-time attendance at the University.

4. A full-time candidate shall be fully engaged in advanced study and research except that the candidate may undertake not more than five hours per week or a total of 240 hours per year on work which is not related to the advanced study and research.

5. Before permitting a part-time candidate to enrol, the Committee shall be satisfied that the candidate can devote at least 20 hours each week to advanced study and research for the degree which (subject to (8)) shall include regular attendance at the school* on an average of at least one day per week for 48 weeks each year.

*Or department where a department is not within a school.
(6) A candidate shall be required to undertake an original investigation on an approved topic. The candidate may also be required to undergo such assessment and perform such other work as may be prescribed by the Committee.

(7) The work shall be carried out under the direction of a supervisor appointed from the full-time academic members of the University staff.

(8) The work, other than field work, shall be carried out in a school* of the University except that the Committee:

(a) may permit a candidate to spend not more than one calendar year of the program in advanced study and research at another institution provided the work can be supervised in a manner satisfactory to the Committee;

(b) may permit a candidate to conduct the work at other places where special facilities not possessed by the University may be available provided the direction of the work remains wholly under the control of the supervisor;

(c) may permit a full-time candidate, who has been enrolled as a full-time candidate for at least six academic sessions, who has completed the research work and who is writing the thesis, to transfer to part-time candidature provided the candidate devotes at least 20 hours each week to work for the degree and maintains adequate contact with the supervisor.

(9) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school* in which the candidate is enrolled and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

(10) No candidate shall be awarded the degree until the lapse of six academic sessions from the date of enrolment in the case of a full-time candidate or eight academic sessions in the case of a part-time candidate. In the case of a candidate who has had previous research experience the committee may approve remission of up to two sessions for a full-time candidate and four sessions for a part-time candidate.

(11) A full-time candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. A part-time candidate for the degree shall present for examination not later than twelve academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

**Thesis**

4. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the investigation.

(2) The candidate shall give in writing to the Registrar two months notice of intention to submit the thesis.

(3) The thesis shall comply with the following requirements:

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

(b) the greater proportion of the work described must have been completed subsequent to enrolment for the degree;

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

(d) it must reach a satisfactory standard of expression and presentation;

(e) it must consist of an account of the candidate's own research but in special cases work done conjointly with other persons may be accepted provided the Committee is satisfied about the extent of the candidate's part in the joint research.

(4) The candidate may not submit as the main content of the thesis any work or material which has previously been submitted for a university degree or other similar award but may submit any work previously published whether or not such work is related to the thesis.

(5) Four copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees.

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

**Examination**

5. (1) There shall be not fewer than three examiners of the thesis, appointed by the Professorial Board on the recommendation of the Committee, at least two of whom shall be external to the University.
(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:
(a) the candidate be awarded the degree without further examination; or
(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school; or
(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or
(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or
(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate be permitted to resubmit the thesis after a further period of study and/or research.

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

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1. The degree of Master of Architectural Design by formal course work may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

2. (1) A candidate for the degree shall:
(a) have been awarded the degree of Bachelor of Architecture with Honours from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Architecture (hereinafter referred to as the Committee), and
(b) have had at least one year's professional practice subsequent to graduation of a kind acceptable to the Committee.

(2) In exceptional cases an applicant who submits evidence of such academic and/or professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the degree until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or three sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions from the date of enrolment for a full-time candidate and six sessions for a part-time candidate. In special cases an extension of these times may be granted by the Committee.

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

Fees
The degree of Master of Architecture or Master of Building or Master of the Built Environment or Master of Landscape Architecture or Master of Town Planning by research may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Architecture (hereinafter referred to as the Committee) to a candidate who has demonstrated the ability to undertake research by the submission of a thesis embodying the results of an original investigation or design.

Qualifications

1. The degree of Master of Architecture or Master of Building or Master of the Built Environment or Master of Landscape Architecture or Master of Town Planning by research may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Architecture (hereinafter referred to as the Committee) to a candidate who has demonstrated the ability to undertake research by the submission of a thesis embodying the results of an original investigation or design.

2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor of four full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

(2) In exceptional cases an applicant who submits evidence of such academic and/or professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) When the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant, before being permitted to enrol, to undergo such examination or carry out such work as the Committee may prescribe.

Enrolment and Progression

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.

(2) In every case, before permitting a candidate to enrol, the head of the school in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:

(a) full-time attendance at the University;

(b) part-time attendance at the University;

(c) external — not in regular attendance at the University and using research facilities external to the University.

(4) A candidate shall be required to undertake an original investigation or design on an approved topic. The candidate may also be required to undergo such examination and perform such other work as may be prescribed by the Committee.

(5) The work shall be carried out under the direction of a supervisor appointed from the full-time members of the University staff.

(6) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school in which the candidate is enrolled and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

(7) No candidate shall be granted the degree until the lapse of three academic sessions in the case of a full-time candidate or four academic sessions in the case of a part-time or external candidate from the date of enrolment. In the case of a candidate who has been awarded the degree of Bachelor with Honours or who has had previous research experience the Committee may approve remission of up to one session for a full-time candidate and two sessions for a part-time or external candidate.

(8) A full-time candidate for the degree shall present for examination not later than six academic sessions from the date of enrolment. A part-time or external candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

Thesis

4. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the original investigation or design.

(2) The candidate shall give in writing two months notice of intention to submit the thesis.

(3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.
(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.

(5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses.

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

5. (1) There shall be not fewer than two examiners of the thesis, appointed by the Professorial Board on the recommendation of the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the merits of the thesis and shall recommend to the Committee that:

(a) the candidate be awarded the degree without further examination; or
(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school; or
(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or
(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or
(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to a further oral, practical or written examination within a period specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the reports of any oral or written or practical examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.

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

1. The degree of Master of the Built Environment (Building Conservation) or Master of Industrial Design or Master of Science (Acoustics) or Master of Science (Building) or Master of Science (Industrial Design) may be awarded by the Council to a candidate who has completed a program of advanced study.

2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor of four full time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Architecture (hereinafter referred to as the Committee).
(2) In exceptional cases an applicant who submits evidence of such academic and/or professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

Enrolment and Progression

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the degree until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or four sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions from the date of enrolment for a full-time candidate and eight sessions for a part-time candidate. In special cases an extension of these times may be granted by the Committee.

Project Report

4. (1) A candidate shall also be required to undertake a project on an approved topic.

(2) The work shall be carried out under the direction of a supervisor appointed from the full-time academic members of the University staff.

(3) The candidate shall give in writing to the Registrar two months notice of intention to submit a report on the project.

(4) Three copies of the project report shall be presented in a form which complies with the requirements of the University for the preparation and submission of project reports for higher degrees.

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

Examination

5. (1) There shall be not fewer than two examiners of the project report, appointed by the Professorial Board on the recommendation of the Committee.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the project report and shall recommend to the Committee that:

(a) the project report be noted as satisfactory; or

(b) the project report be noted as satisfactory subject to minor corrections being made to the satisfaction of the head of the school; or

(c) the project report be noted as unsatisfactory but that the candidate be permitted to resubmit it in a revised form after a further period of study and/or research; or

(d) the project report be noted as unsatisfactory and that the candidate be not permitted to resubmit it.

(3) The Committee shall, after considering the examiners’ reports and the candidate’s results of assessment in the prescribed formal subjects, recommend whether or not the candidate may be awarded the degree. If it is decided that the project report is unsatisfactory the Committee shall determine whether or not the candidate may resubmit it after a further period of study and/or research.

Fees

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

Master of Engineering (ME) and Master of Science (MSc)

1. The degree of Master of Engineering or Master of Science by research may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee) to a candidate who has demonstrated ability to
undertake research by the submission of a thesis embodying the results of an original investigation.

2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

(2) An applicant who submits evidence of such other academic or professional attainments as may be approved by the Committee may be permitted to enrol for the degree.

(3) When the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant, before being permitted to enrol, to undergo such examination or carry out such work as the Committee may prescribe.

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.

(2) In every case, before permitting a candidate to enrol, the head of the school* in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:

(a) full-time attendance at the University;
(b) part-time attendance at the University;
(c) external — not in regular attendance at the University and using research facilities external to the University.

(4) A candidate shall be required to undertake an original investigation on an approved topic. The candidate may also be required to undergo such examination and perform such other work as may be prescribed by the Committee.

(5) The work shall be carried out under the direction of a supervisor appointed from the full-time members of the University staff.

(6) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school* in which the candidate is enrolled and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

(7) No candidate shall be granted the degree until the lapse of three academic sessions in the case of a full-time candidate or four academic sessions in the case of a part-time or external candidate from the date of enrolment. In the case of a candidate who has been awarded the degree of Bachelor with Honours or who has had previous research experience the Committee may approve remission of up to one session for a full-time candidate and two sessions for a part-time or external candidate.

(8) A full-time candidate for the degree shall present for examination not later than six academic sessions from the date of enrolment. A part-time or external candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

4. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the original investigation.

(2) The candidate shall give in writing two months notice of intention to submit the thesis.

(3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.

(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.

(5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses.

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

*Or department where a department is not within a school.
Examination

5. (1) There shall be not fewer than two examiners of the thesis, appointed by the Professorial Board on the recommendation of the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the merits of the thesis and shall recommend to the Committee that:

(a) the candidate be awarded the degree without further examination; or

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school*; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to a further oral, practical or written examination within a period specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the reports of any oral or written or practical examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.

Fees

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

Master of Engineering (ME), Master of Science (MSc) and Master of Surveying (MSurv) without supervision

Qualifications

1. The degree of Master of Engineering or Master of Science or Master of Surveying without supervision may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee) to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.

2. A candidate for the degree shall have been awarded an appropriate degree of Bachelor from the University of New South Wales with at least three years relevant standing in the case of Honours graduates and four years relevant standing in the case of Pass graduates, and at a level acceptable to the Committee.

Enrolment

3. An application to enrol as a candidate for the degree without supervision shall be made on the prescribed form which shall be lodged with the Registrar not less than six months before the intended date of submission of the thesis. A graduate who intends to apply in this way should, in his or her own interest, seek at an early stage the advice of the appropriate head of school with regard to the adequacy of the subject matter and its presentation for the degree. A synopsis of the work should be available.

Thesis

4. (1) A candidate shall submit a thesis embodying the results of the investigation.

(2) The candidate shall give in writing to the Registrar two months notice of intention to submit the thesis.

(3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.

(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.

(5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees.

*Or department where a department is not within a school.
(6) It shall be understood that the University retains the three copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.

5. (1) There shall not be fewer than two examiners of the thesis, appointed by the Professorial Board on the recommendation of the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.

(2) Before the thesis is submitted to the examiners the head of the school* in which the candidate is enrolled shall certify that it is *prima facie* worthy of examination.

(3) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:

(a) the candidate be awarded the degree without further examination; or

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school*; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(4) If the performance at the further examination recommended under (3)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.

(5) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.

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

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1. A Graduate Diploma may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

2. (1) A candidate for the diploma shall have been awarded an appropriate degree of Bachelor from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee).

(2) An applicant who submits evidence of such other academic or professional attainments as may be approved by the Committee may be permitted to enrol for the diploma.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

3. (1) An application to enrol as a candidate for the diploma shall be made on the prescribed form which shall be lodged with the Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.
(2) A candidate for the diploma shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the diploma until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or four sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions from the date of enrolment for a full-time candidate and six sessions for a part-time candidate. In special cases an extension of these times may be granted by the Committee.

Fees 4. A candidate shall pay such fees as may be determined from time to time by the Council.
Scholarships and Prizes

The scholarships and prizes listed below are available to students whose courses are listed in this handbook. Each faculty handbook contains in its Scholarships and Prizes section the scholarships and prizes available within that faculty. The General Information section of the Calendar contains a comprehensive list of scholarships and prizes offered throughout the University.

Scholarships

Undergraduate Scholarships

Listed below is an outline only of a number of scholarships available to students. Full information may be obtained from Room G20, located on the Ground Floor of the Chancellery.

Unless otherwise indicated in footnotes, applications for the following scholarships should be made to the Registrar by 14 January each year. Please note that not all of these awards are available every year.

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Years of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td></td>
<td>Minimum period of approved degree/combined degree course</td>
<td>Merit in HSC and total family income not exceeding $6000</td>
</tr>
<tr>
<td>Bursary Endowment Board*</td>
<td>$200 pa</td>
<td>1 year</td>
<td>Prior completion of at least 2 years of a degree or diploma course and enrolment in a full-time course during the year of application; academic merit; participation in sport both directly and administratively; and financial need</td>
</tr>
<tr>
<td>Sam Cracknell Memorial</td>
<td>Up to $3000 pa payable in fortnightly instalments</td>
<td>1 year</td>
<td>Available only to female students under 35 years of age who are permanent residents of Australia enrolling in any year of a full-time undergraduate course on the basis of academic merit and financial need</td>
</tr>
<tr>
<td>Girls Realm Guild</td>
<td>Up to $1500 pa</td>
<td>1 year renewable for the duration of the course subject to satisfactory progress and continued demonstration of need</td>
<td></td>
</tr>
</tbody>
</table>

*Apply to The Secretary, Bursary Endowment Board, PO Box 460, North Sydney 2060, immediately after sitting for HSC.
### Undergraduate Scholarships (continued)

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General (continued)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>W. S. and L. B. Robinson*</td>
<td>Up to $3800 pa</td>
<td>1 year renewable</td>
<td>Available only to students who have completed their schooling in Broken Hill or whose parents reside in Broken Hill; for a course related to the mining industry. Includes courses in mining engineering, geology, electrical and mechanical engineering, metallurgical process engineering, chemical engineering and science.</td>
</tr>
<tr>
<td>Universities Credit Union</td>
<td>$500 pa</td>
<td>1 year with the possibility of renewal</td>
<td>Prior completion of at least 1 year of any undergraduate degree course. Eligibility limited to members of the Universities Credit Union Ltd of more than one year's standing or members of the family of such members.</td>
</tr>
</tbody>
</table>

### Graduate Scholarships

Application forms and further information are available from the Student Enquiry Counter, located on the Ground Floor of the Chancellery. Information is also available on additional scholarships which may become available from time to time, mainly from funds provided by organizations sponsoring research projects.

The following publications may also be of assistance: 1. *Awards for Postgraduate Study in Australia* and *Awards for Postgraduate Study Overseas*, published by the Graduate Careers Council of Australia, PO Box 28, Parkville, Victoria 3052; 2. *Study Abroad*, published by UNESCO**; 3. *Scholarships Guide for Commonwealth Postgraduate Students*, published by the Association of Commonwealth Universities**.

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
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</thead>
<tbody>
<tr>
<td><strong>University of New South Wales Postgraduate Scholarships</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commonwealth Postgraduate Research Awards</td>
<td>Living allowance of $6500 pa. Other allowances may also be paid.</td>
<td>1-2 years for a Masters and 3-4 years for a PhD degree</td>
<td>Applicants must be honours graduates (or equivalent). Applications to Dean of relevant Faculty.</td>
</tr>
<tr>
<td>Commonwealth Postgraduate Course Awards</td>
<td>Living allowance of $7616 pa. Other allowances may also be paid.</td>
<td>1-2 years; minimum duration of course</td>
<td>Applicants must be graduates or scholars who will graduate in current academic year, and who have not previously held a Commonwealth Postgraduate Award. Preference is given to applicants with employment experience. Applications to Registrar by 30 September.</td>
</tr>
</tbody>
</table>

*Applications close 30 September each year  
**Available for reference in the University Library
Graduate Scholarships (continued)

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Years of Tenure</th>
<th>Conditions</th>
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</thead>
<tbody>
<tr>
<td><strong>General (continued)</strong></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Australian American Educational Foundation Travel</td>
<td>Amount varies, depending on award</td>
<td>Up to 1 year</td>
<td>Applicants must be graduates, senior scholars or post-doctoral Fellows. Applications close 30 September.</td>
</tr>
<tr>
<td>Grant (Fulbright)*</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Australian Federation of University Women</td>
<td></td>
<td></td>
<td>Applicants must be female graduates who are members of the Australian Federation of University Women</td>
</tr>
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</tr>
<tr>
<td>The Caltex Woman Graduate Scholarships</td>
<td>Six State awards of $5000 each</td>
<td>1 year</td>
<td>Applicants must be female graduates who will have completed a University degree or diploma this year and who are Australian citizens or have resided in Australia for at least seven years. Selection is based on scholastic and literary achievements, demonstrable qualities of character and accomplishments in cultural and/or sporting/recreational activities. Applications close late September.</td>
</tr>
<tr>
<td></td>
<td>One National award valued at $20,000 pa for study at an approved overseas institution.</td>
<td>2 years</td>
<td></td>
</tr>
<tr>
<td>Commonwealth Scholarship and Fellowship Plan</td>
<td>Varies for each country. Generally covers travel, living, tuition fees, books and equipment, approved medical expenses. Marriage allowance may be payable.</td>
<td>Usually 2 years, sometimes 3</td>
<td>Applicants must be graduates who are Australian citizens and who are not older than 35 years of age. Applications close with Registrar in September or October each year.</td>
</tr>
<tr>
<td>The English-Speaking Union (NSW Branch)</td>
<td>$5000</td>
<td></td>
<td>Applicants must be residents of NSW or ACT. Awarded to young graduates to further their studies outside Australia. Applications close mid-April.</td>
</tr>
<tr>
<td>Frank Knox Memorial Fellowships at Harvard University</td>
<td>Stipend of US$6000 pa plus tuition fees</td>
<td>1, sometimes 2 years</td>
<td>Applicants must be British subjects and Australian citizens, who are graduates or near graduates of an Australian university. Applications close with the Registrar mid-October.</td>
</tr>
<tr>
<td>Gowrie Scholarship Trust Fund</td>
<td>$3500 pa. Under special circumstances this may be increased.</td>
<td>2 years</td>
<td>Applicants must be members of the Forces or children of members of the Forces who were on active service during the 1939-45 War. Applications close with Registrar by 31 October.</td>
</tr>
</tbody>
</table>

*Application forms are available from The Secretary, Department of Education, AAEF Travel Grants, PO Box 826, Woden, ACT 2606.
### Graduate Scholarships (continued)

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Years of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General (continued)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harkness Fellowships of the Commonwealth Fund of New York*</td>
<td>Living and travel allowances, tuition and research expenses, health insurance, book and equipment and other allowances for travel and study in the USA</td>
<td>12 to 21 months</td>
<td>Candidates must be: 1. Either members of the Commonwealth or a State Public Service or semi-government Authority. 2. Either staff or graduate students at an Australian university. 3. Individuals recommended for nomination by the Local Correspondents. The candidate will usually have an honours degree or equivalent, or an outstanding record of achievement, and be not more than 36 years of age. Applications close 31 August.</td>
</tr>
<tr>
<td>The Rhodes Scholarship**</td>
<td>Approximately £3600 stg pa</td>
<td>2 years, may be extended for a third year</td>
<td>Unmarried male and female Australian citizens aged between 19 and 25 who have been domiciled in Australia at least 5 years and have completed at least 2 years of an approved university course. Applications close in mid-September each year.</td>
</tr>
<tr>
<td>Rothmans Fellowships Award†</td>
<td>$20000 pa</td>
<td>1 year, renewable up to 3 years</td>
<td>The field of study is unrestricted. Applicants must have at least 3 years graduate experience in research. Applications close in July.</td>
</tr>
<tr>
<td>Sam Cracknell Memorial</td>
<td>Up to $3000 pa</td>
<td></td>
<td>See above under Undergraduate Scholarships, General</td>
</tr>
</tbody>
</table>

### Architecture

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Years of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Associated Hardware Manufacturers Scholarship</td>
<td>$1500 pa or such other amount as the Dean may determine</td>
<td>1 year</td>
<td>Applicants shall have qualified for the degree of Bachelor of Architecture with honours or Bachelor of Building with honours at the University of New South Wales and such graduates shall be of not more than five (5) years standing at the time of taking up the scholarship. Applications to Registrar by 31 October.</td>
</tr>
<tr>
<td>Byera Hadley Travelling Scholarships§</td>
<td>$5000 pa</td>
<td>1 year</td>
<td>Awarded to outstanding graduates of a school of architecture in New South Wales for a course of study or research, or other activity contributing to the advancement of architecture. Graduates must be Australian citizens and awards are eligible up to 8 years from graduation.</td>
</tr>
</tbody>
</table>

*Application forms must be obtained from the Australian representative of the Fund, Mr J. T. Larkin, Department of Trade, Edmund Barton Building, Kings Avenue, Barton, ACT 2600. These must be submitted to the Registrar by 15 August.

**Applications to the Honorary Secretary of the NSW Committee. University of Sydney. NSW 2006.

†Applications to the Secretary, Rothmans University Endowment Fund, University of Sydney. NSW 2006.

§Applications to the Registrar, Board of Architects of New South Wales, 196 Miller Street, North Sydney 2060, not later than 31 March each year.
Graduate Scholarships (continued)

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture (continued)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Lindsay Robertson</td>
<td>A maximum of $1500</td>
<td>1 year, may be extended up to 3 years</td>
<td>Candidates should be Landscape Architecture graduates of the University of New South Wales. The award is to undertake full-time graduate study or research in Landscape Architecture at an approved institution. Applications close 30 May.</td>
</tr>
<tr>
<td>The Master Builders' Association of NSW</td>
<td>$500</td>
<td>1 year</td>
<td>Applicants must be graduates who have enrolled in the Master of Science (Building) degree course.</td>
</tr>
<tr>
<td>Wightman/University Scholarship</td>
<td>$2000 pa</td>
<td>1 year</td>
<td>Best final year student in BArch degree course proceeding to graduate study</td>
</tr>
</tbody>
</table>

Prizes

Undergraduate University Prizes

The following table summarizes the undergraduate prizes for this Faculty awarded by the University. Prizes which are not specific to any School are listed under General.

Information regarding the establishment of new prizes may be obtained from the Examinations Section located on the Ground Floor of the Chancellery.

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sydney Technical College Union Award</td>
<td>150.00 and medal</td>
<td>Leadership in the development of student affairs, and academic proficiency throughout the course</td>
</tr>
<tr>
<td>University of New South Wales Alumni Association</td>
<td>Statuette</td>
<td>Achievement for community benefit – students in their final or graduating year</td>
</tr>
</tbody>
</table>

School of Architecture

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Board of Architects of New South Wales</td>
<td>250.00</td>
<td>An outstanding graduand in the School of Architecture</td>
</tr>
<tr>
<td>Frank Fox Memorial</td>
<td>150.00</td>
<td>11.4334 Historical Research C</td>
</tr>
<tr>
<td>Frank W. Peplow</td>
<td>100.00</td>
<td>Church Architecture or Design</td>
</tr>
<tr>
<td>James Hardie &amp; Co Pty Ltd</td>
<td>150.00</td>
<td>General proficiency throughout the Bachelor of Architecture degree course</td>
</tr>
<tr>
<td>Royal Australian Institute of Architects</td>
<td>250.00</td>
<td>Outstanding performance by a student in the final two years of the course</td>
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</tbody>
</table>
## Undergraduate University Prizes (continued)

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
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<tbody>
<tr>
<td><strong>School of Building</strong></td>
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<tr>
<td>Institute of Wood Science (Australian Branch)</td>
<td>50.00</td>
<td>35.609 Building Science 9 (Timber)</td>
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<td>— Timber in Building</td>
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<tr>
<td>James Hardie &amp; Co Pty Ltd</td>
<td>100.00</td>
<td>Bachelor of Building degree course, Year 1</td>
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<tr>
<td>Master Builders' Association of New South Wales</td>
<td>300.00</td>
<td>Merit performance in the Bachelor of Building degree course</td>
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<td><strong>School of Landscape Architecture</strong></td>
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<tr>
<td>Lindsay Robertson Memorial</td>
<td>300.00</td>
<td>37.5404 Landscape Design 2</td>
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<td><strong>School of Town Planning</strong></td>
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<tr>
<td>John Shaw Memorial</td>
<td>200.00</td>
<td>Best result in Thesis in the Bachelor of Town Planning degree course</td>
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<tr>
<td>The NSW Department of Environment and Planning</td>
<td>150.00</td>
<td>Bachelor of Town Planning degree course, Year 5</td>
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<tr>
<td>NSW Local Government Association of Planners</td>
<td>70.00</td>
<td>Best thesis produced by a final year student on a topic related to local government planning</td>
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<tr>
<td>Royal Aust Planning Institute, NSW Division</td>
<td>150.00</td>
<td>Bachelor of Town Planning degree course, Year 3</td>
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## Graduate University Prizes

<table>
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<th>Donor/Name of Prize</th>
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<tr>
<td><strong>School of Building</strong></td>
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<tr>
<td>Alex Rigby</td>
<td>105.00</td>
<td>Master of Science (Building) — distinguished graduate</td>
</tr>
<tr>
<td>T. W. Crow</td>
<td>100.00</td>
<td>35.276G Construction Planning</td>
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</tbody>
</table>
Staff

Comprises School of Architecture, including Department of Industrial Arts; Schools of Building, Landscape Architecture, Town Planning; and Graduate School of the Built Environment.

Dean
Professor R. Clough

Chairman
Professor H. L. Westerman

Senior Administrative Officer
Brian John Newell, BCom N.S.W.

Professional Officers
Terrence Edward Gill, BE N.S.W.
Roderick Craig McGregor, BSc N.S.W.
Richard Rosenberger, BE Timisoara

School of Architecture

Associate Professor of Architecture and Head of School
Richard Eric Apperly, BArch Syd., MArch N.S.W., ARAIA

Professor of Architecture
Paul Stanhope Reid, BArch Auck., MArch Mich., ARAIA

Professor of Architecture
Barry John Baker, ASTC, FRAIA, MAIA

Associate Professors
John Albyn Ballinger, BArch Adel., FRAIA
Russell Callam Jack, MArch N.S.W., ASTC, FRAIA
Laszlo Peter Kollar, MArch PhD N.S.W., ASTC
Peter Thomas Oppenheim, BArch Cape T., MArch PhD N.S.W., ARIBA
Kenneth James Wyatt, BE Qld., MBdgSc Syd., MIE Aust

Senior Lecturers
Victor Martin Berk, BArch DipAdmin N.S.W.
Robert Charles Lewis Irving, MArch N.S.W., ARMT, FRAIA
Paul-Alan Johnson, BArch Syd., DipCD N.S.W., FRAIA
Geoffrey Kenneth Le Sueur, BArch GradDip N.S.W., ARAIA
Nicholas Marinov, DipArch Prague, MArch N.S.W.
Peter Reginald Proudfoot, BArch Syd., MArch Penn., PhD N.S.W., Rome Scholar, ARAIA
Nancy Claire Ruck, BArch N.Z., MBdgSc Syd., PhD N.S.W., FIES, FRAIA, ANZIA
Vinzenz Franz-Josef Sedlak, DipplingArch TU. Graz, MPhil Sur.
Clive William Stevens, MArch N.S.W., MSc Sur., DipTCP Syd., ASTC
Barry Vivian Wollaston, BArch Syd., MArch N.S.W., FRAIA

Lecturers
Chris LeRoy Bell, BA(Arch) Calif.
Robert John Bryant, BArch N.S.W., MTCP Syd., ASTC, DipEnvStud Macq., MRAPI, ARAIA
Marion Anne Burgess, BSc Syd., MSc(Acoustics) N.S.W., MAAS
John Richard Cooke, BArch Syd., LLB MSc(Building) N.S.W., FRAIA
Geoffrey Lindsay Dwyer, FRAIA
Architecture

Richard Grantley Fitzhardinge, DipArch Kingston on Thames Poly., MArch Calif., ARIBA, ARAIA
John Barrie Fraser, DipArt(Ed)
Bruce Herbert Judd, BArch PhD Syd., ARAIA
Alan Ogg, BE N.S.W., MArch Penn.
Richard Patrick Parlout, BSc Lond., PhD N.S.W., DipEng Lough.
James David Plume, MArch Syd.
Harry Anthony Stephens, BArch DipLD N.S.W., FRAIA
Kwong Hon Tang, BArch H.K., MArch Melb.

Senior Tutor
Elizabeth Ann Howard, BArch Syd., BA Macq.

Tutors
Desley Olwyn Luscombe, BSc(Arch) BArch N.S.W.
Stephen Peter, BArch Syd.
Michael Charles Tawa, BArch N.S.W.

School of Landscape Architecture

Professor of Landscape Architecture and Head of School
Richard Clough, BArch Syd., FLI, FAILA, FRAIPR

Associate Professor
Finn Christopher Thorvaldson, BArch N.S.W., MLA Mich., AAILA, ARIBA

Senior Lecturer
Sydney Allison Baggs, MArch DipLD PhD N.S.W., ASTC, FRAIA, AAIAL, ARIBA

Lecturers
Helen Beatrice Armstrong, BSc Syd., GradDip N.S.W.
Craig Anthony Burton, BArch GradDip N.S.W., MA Syd., ARAIA
Douglas Crawford, BArch Melb., GradDip N.S.W., MRAIPR
Donald Guy Sigsby, MLA Mich., AAILA

School of Building

Professor of Building and Head of School
Arthur Raymond Toakley, BCE BA MEngSc Melb., PhD Manc., CEng, FIEAust, FAIB

Associate Professor
Roger Mark Anthony Miller, BBuild N.S.W., SM CE M.I.T., FAIB, MACS

Senior Lecturers
David Nevil Hume Hassall, BE MBdgSc Syd., MIEAust
John Malcolm Hutcheson, MC, BE Syd., BCom Qld., MBA PhD N.S.W., FIEAust, FID, FIARB, AAUQ, LGE, AASA(Snr), FAIB, FAIM, FSLE, FCDA, FIAust, ACIS
Graham Edward Levido, BBuild MSc(Building) N.S.W., MAIB
Marton Marosszeky, BE N'cle (N.S.W.), MEngSc N.S.W., MIEAust, MAIB
James Francis Mooney, MBuild N.S.W., ASTC, FAIQS, FIARB

Lecturers
Ojars Indulis Greste, ME N.S.W., DEng Calif.

School of Town Planning

Professor of Town Planning and Head of School
Hans Leo Westerman, ME Delft, FRAPI, MIEAust

Associate Professor
Elias David Duek-Cohen, BArch Liv., MA Oxt., DipTP Lond., FRAPI, MRTP, ARIBA

Senior Lecturers
Stephen Harris, BTP N.S.W., MRAPI
James Leslie King, BArch MTCP Syd., FRAPI

Lecturers
Peter Ashton Murphy, BA Syd., PhD Macq
Danny Barry Wiggins, BTP PhD N.S.W., MRAPI
Graduate School of the Built Environment

Professor of Architecture and Head of School
John Christopher Haskell, DipTP Lond., MArch Natal, Rome Scholar, FRSA

Associate Professor
Anita Barbara Lawrence, MArch N.S.W., FRAIA, MAAS

Senior Lecturers
John Kyle Redmond, BA DiplD(Eng) C.S.A.D., MA R.C.A., FRSA, AIDIA
Peter Leggett Reynolds, BArch PhD N.S.W.
<table>
<thead>
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<th>Time</th>
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<td>8-9</td>
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</tbody>
</table>
The University of New South Wales Kensington Campus 1986

Theatres
Biomedical Theatres E27
Central Lecture Block E19
Classroom Block (Western Grounds) H3
Rex Vowels Theatre F17
Keith Burrows Theatre J14
Main Building Theatrette K14
Mathews Theatres D23
Parade Theatre E3
Science Theatre F13
Sir John Clancy Auditorium C24

Buildings
Affiliated Residential Colleges
New (Anglican) L6
Shalom (Jewish) N9
Warrane M7
Applied Science F10
Architecture H14
Arts (Morven Brown) C20
Banks F22
Barker Street Gatehouse N11
Basser College C18
Biological Sciences D26
Central Store 813
Central Lecture Block E19
Keith Burrows Theatre J14
Rex Vowels Theatre F17

General
Academic Staff Office C22
Accountancy F20
Admissions C22
Adviser for Prospective Students F15
Alumni and Ceremonials C22
Anatomy C27
Applied Geology F10
Applied Science (Faculty Office) F10
Architecture (including Faculty Office) H14
Arts (Faculty Office) C20
Audio Visual Unit F20
Australian Graduate School of Management G27
Biochemistry D26
Biological Sciences (Faculty Office) D26

Kindergarten (House at Pooh Corner) N8
Landscape Architecture K15
Law (Faculty Office) F21
Law Library F21
Librarianship F23
Library E21
Lost Property F20
Marketing F20
Mathematics F23
Mechanical Engineering J17
Medicine (Faculty Office) B27
Metallurgy E8
Microbiology D26
Mining Engineering K15
Music B11b
National Institute of Dramatic Art D2
Nuclear Engineering J17
Off-campus Housing C22
Optometry J12
Organizational Behaviour F20
Pathology C27
Patrol and Cleaning Services F20
Philosophy C20
Physics K15
Physical Education and Recreation Centre (PERC) B5
Physiology and Pharmacology C27
Political Science C20
Psychology F23
Public Affairs Unit C22
Regional Teacher Training Centre C27
Russian C20
Science and Mathematics Course Office F23
Social Work G2
Sociology C20
Spanish and Latin American Studies C20
Sport and Recreation E4
Student Counselling and Research F15
Student Health F15
Student Records C22
Students' Union E4 and C21
Surveying K17
Tertiary Education Research Centre E15d
Textile Technology G14
Theatre Studies B10
Town Planning K15
University Archives C22
University Press A28
University Union (Blockhouse) G6
Wool and Pastoral Sciences B8a
Zoology D26
This Handbook has been specifically designed as a source of reference for you and will prove useful for consultation throughout the year.

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

The Calendar and Handbooks also contain a summary list of higher degrees as well as the conditions for their award applicable to each volume.

For detailed information about courses, subjects and requirements of a particular faculty you should consult the relevant Faculty Handbook.

Separate Handbooks are published for the Faculties of Applied Science, Architecture, Arts, Commerce, Engineering, Law, Medicine, Professional Studies, Science (including Biological Sciences and the Board of Studies in Science and Mathematics), the Australian Graduate School of Management (AGSM) and the Board of Studies in General Education.

The Calendar and Handbooks are available from the Cashier's Office.

The Calendar costs $5.00 (plus postage $1.20, interstate $1.55).

The Handbooks vary in cost: Applied Science, Architecture, Arts, Commerce, Engineering, Professional Studies, and Sciences are $3.00. Postage is $1.20 in each case ($1.55 interstate). Law, Medicine and AGSM are $2.00. Postage is 80 cents in each case (90 cents interstate).

A set of books is $32.00. Postage is $2.50 ($6.00 interstate).

The General Studies Handbook is free. Postage is 80 cents (90 cents interstate).