How to use this Handbook

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

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

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

**Faculty Information.**

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

**Graduate Study** is about higher degrees.

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

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

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

**Staff list.**

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

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

Telephone: (02) 663 0351

Telegraph: UNITECH, SYDNEY

Telex AA26054

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

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Faculty of Architecture
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Annual. Kensington.

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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 8 September 1980, 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 Deputy Registrar (Student Services), Mr Peter O'Brien, and his Administrative Assistant, Mrs Anne Beaumont, are located on the first floor of the Chancellery. They will help 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 they are especially concerned with the problems of physically handicapped and disabled students and those in need of financial assistance. The latter students should see Mrs Beaumont. Enquire at room 148E, phone 2482 (general enquiries) or 3164 (financial assistance).

The Assistant Registrar (Admissions and Examinations), Mr Jack Hill, is located on the ground floor of the Chancellery. General enquiries should be directed to 3715. For information regarding examinations, including examination timetables and clash of examinations, contact the Administrative Officer, Mr John Grigg, phone 2143.

Note: All phone numbers below are University extension numbers. If you are outside the University, dial 663 0351 and ask for the extension or dial 662 - and then the extension number. This prefix should only be used when you are certain of the extension that you require. Callers using 662 cannot be transferred to any other number.

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The Assistant Registrar (Student Records, Higher Degrees and Scholarships), Mr Peter Wildblood is located on the ground floor of the Chancellery. For particular enquiries regarding the Student Records Unit, including illness and other matters affecting performance in examinations, academic statements, graduation ceremonies, prizes, release of examination results and variations to enrolment programs, phone 3711.

The Adviser for Prospective Students, Mrs Fay Lindsay, is located in the Chancellery and is available for personal interview. For an appointment phone 3453.

The Assistant Registrar (Student Employment), Mr Jack Foley, is located in the Chancellery. Enquiries should be directed to 3259.

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

The Student Health Unit is located in Hut E15b at the foot of Basser Steps. The Director is Dr Geoffrey Hansen. For medical aid phone 2679 or 3275.

The Student Counselling and Research Unit is located at the foot of Basser Steps. For assistance with educational or vocational problems ring 3681, 3685 or 2696 for an appointment.

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

The Chaplaincy Centre is located in Hut E15a at the foot of Basser Steps. For spiritual counselling phone Anglican - 2684; Catholic - 2379; Greek Orthodox - 2683; Lutheran - 2683; Uniting Church - 2685.

The Students' Union is located on the second floor of Stage III of the University Union, where the SU President, Secretary-Treasurer, Education Vice-President, Welfare-Research Officer, and Director of Overseas Students are available to discuss any problems you might have.

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 five weeks between the two sessions and there are short recesses of one week within each of the sessions.

Session 1 commences on the first Monday of March.

#### 1981

<table>
<thead>
<tr>
<th>Session 1</th>
<th>2 March to 10 May</th>
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<td>(14 weeks)</td>
<td>May Recess: 11 May to 17 May</td>
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<td></td>
<td>18 May to 14 June</td>
</tr>
<tr>
<td>Tuesday</td>
<td>Midyear Recess: 15 June to 19 July</td>
</tr>
<tr>
<td>16 June</td>
<td>Examinations begin</td>
</tr>
<tr>
<td>Wednesday</td>
<td>Examinations end</td>
</tr>
<tr>
<td>1 July</td>
<td></td>
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<table>
<thead>
<tr>
<th>Session 2</th>
<th>20 July to 23 August</th>
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<tr>
<td>(14 weeks)</td>
<td>August Recess: 24 August to 30 August</td>
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<tr>
<td></td>
<td>31 August to 1 November</td>
</tr>
<tr>
<td>Monday 9</td>
<td>Examinations begin</td>
</tr>
<tr>
<td>November</td>
<td></td>
</tr>
<tr>
<td>Friday 27</td>
<td>Examinations end</td>
</tr>
<tr>
<td>November</td>
<td></td>
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<table>
<thead>
<tr>
<th>January</th>
<th>New Year's Day – Public Holiday</th>
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<td>Thursday 1</td>
<td>Last day for applications for review of results of annual examinations</td>
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<tr>
<td>Friday 2</td>
<td>Last day for acceptance of applications by Admissions Office for transfer to another undergraduate course within the University</td>
</tr>
<tr>
<td>Saturday 3</td>
<td>Enrolment period begins for new undergraduate students and undergraduate students repeating first year</td>
</tr>
<tr>
<td>Friday 9</td>
<td>Enrolment period begins for second and later year undergraduate students and graduate students enrolled in formal courses</td>
</tr>
<tr>
<td>Monday 26</td>
<td>Australia Day – Public Holiday</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>February</th>
<th>Enrolment period begins for new undergraduate students and undergraduate students repeating first year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday 5</td>
<td>Enrolment period begins for second and later year undergraduate students and graduate students enrolled in formal courses</td>
</tr>
</tbody>
</table>
March
Monday 2  **Session 1 commences**  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 their degree for any other reason.

Wednesday 11  List of graduands for April/May ceremonies and of 1980 prize-winners published in *The Sydney Morning Herald*.

Friday 13  Last day for acceptance of enrolment by new undergraduate students (late fee payable thereafter).

Monday 16  Last day for notification of correction of details published in the press on 11 March concerning April/May graduation ceremonies.

Friday 27  Last day for acceptance of enrolment by undergraduate students re-enrolling in second and later years (late fee payable thereafter).

April
Friday 17 to Monday 20  Easter.

Thursday 16  Last day for undergraduate students to discontinue without failure subjects which extend over Session 1 only.

Saturday 25  Anzac Day – Public Holiday.

Monday 27  *Confirmation of Enrolment* forms despatched to all students.

May
Wednesday 6  Last day for undergraduate students completing requirements for degrees or diplomas at the end of Session 1 to submit *Application for Admission to Degree* form.

Monday 11  Last day for acceptance of corrected *Confirmation of Enrolment* forms.

**May Recess begins**

Thursday 14  Publication of provisional timetable for June/July examinations.

Sunday 17  **May Recess ends**

Friday 22  Last day for students to advise of examination timetable clashes.

June
Tuesday 2  Publication of timetable for June/July examinations.

Monday 8  Queen’s Birthday – Public Holiday.

**Session 1 ends**

Sunday 14  **Midyear Recess begins**

Tuesday 16  Examinations begin.

July
Wednesday 1  Examinations end.

Monday 13  Examination results mailed to students.

Tuesday 14  Examination results displayed on University noticeboards.

Tuesday 14 to Friday 17  Students to amend enrolment programs following receipt of June examination results.

Sunday 19  **Midyear Recess ends**

Monday 20  **Session 2 begins**

Thursday 30  Last day for application for review of June examination results.

Friday 31  Foundation Day (no classes held).

August
Monday 24  Last day for students to discontinue without failure subjects which extend over the whole of academic year.

Sunday 30  **August Recess begins**

September
Tuesday 1  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 their degree for any other reason.

Wednesday 9  Last day for undergraduate students to discontinue without failure subjects which extend over Session 2 only.

Monday 14  List of graduands for October graduation ceremonies published in *The Sydney Morning Herald*.

**Confirmation of Enrolment** form forwarded to all students.

Wednesday 23  Last day for notification of correction of details published in the press on 9 September concerning October graduation ceremonies.

**October 1**  Last day for applications from undergraduate students completing requirements for degrees and diplomas at the end of Session 2 to submit *Application for Admission to Degree* form.

Tuesday 24  Last day for acceptance of corrected *Confirmation of Enrolment* forms.

Tuesday 31  Last day to apply to UCAC for transfer to another tertiary institution in New South Wales.

Publication of provisional examination timetable.
Monday 5  
Friday 9  
Thursday 22  

**November**

Sunday 1  
Monday 2  
Sunday 8  
Monday 9  
Friday 27

**December**

Monday 14  
Tuesday 15  
Monday 21  
Friday 25  
Saturday 26

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**Faculty of Medicine**

First and  
Second Years  
Publication of timetable for examinations

Third and  
Fourth Years  
Term 1 (10 weeks) 26 January to 4 April

Term 2 (9 weeks) 13 April to 9 May

May Recess: 10 May to 16 May

Term 3 (9 weeks) 28 June to 29 August

Term 4 (10 weeks) 6 September to 14 November

Fifth Year

Term 1 (8 weeks) 26 January to 21 March

Term 2 (8 weeks) 29 March to 23 May

Term 3 (8 weeks) 31 May to 25 July

Term 4 (8 weeks) 2 August to 26 September

Term 5 (8 weeks) 5 October to 28 November

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**1982**

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**Faculties other than Medicine**

**Session 1**  
(14 weeks)  
1 March to 9 May  
May Recess: 10 May to 16 May

17 May to 13 June  
Midyear Recess: 14 June to 18 July

Examinations  
15 June to 30 June

**Session 2**  
(14 weeks)  
19 July to 22 August  
August Recess: 23 August to 29 August  
30 August to 31 October

Study Recess: 1 November to 7 November

Examinations  
8 November to 26 November

---

**January**

Friday 1  
Public Holiday

Monday 4  
Last day for applications for review of results of annual examinations

Friday 8  
Last day for acceptance of applications by Admissions Office for transfer to another undergraduate course within the University

**February**

Monday 1  
Australia Day – Public Holiday

Tuesday 2  
Enrolment period begins for new undergraduate students and undergraduate students repeating first year

Monday 15  
Enrolment period begins for second and later year undergraduate students and students enrolled in formal graduate courses

**March**

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

**April**

Friday 9 to  
Easter – Public Holiday

Monday 12  
Anzac Day

Sunday 25  
Monday 26  
Public Holiday
Organization of the University

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

In 1980 the University had 18,359 students and over 3,700 staff who worked in more than eighty buildings. These figures include staff and students at Broken Hill (W.S. and L.B. Robinson University College), Duntroon (the Faculty of Military Studies) and Jervis Bay.

Arms of the University of New South Wales

The 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', 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 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 44 members from the State Parliament, industry and commerce, agriculture, the trade unions, professional bodies, the staff, the students and the graduates of the University.

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

The Chairman of the Council is the Chancellor, the Hon. Mr Justice Samuels, and the Deputy Chancellor is Dr F.M. Mathews.

The Professorial Board

The Professorial Board is one of the two chief academic units within the University and includes all the professors from the various faculties. It deliberates on all questions such as matriculation requirements, the content of courses, the arrangement of syllabuses, the appointment of examiners and the conditions for graduate degrees. Its recommendations on these and similar matters are presented to Council for its consideration and adoption.

The Faculties/Boards of Study

The Dean, who is also a professor, is the executive head of the Faculty or Board of Study. Members of each Faculty or Board meet regularly to consider matters pertaining to their own areas of study and research, the result of their deliberations being then submitted to the Professorial Board.

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

The eleven Faculties are Applied Science, Architecture, Arts, Biological Sciences, Commerce, Engineering, Law, Medicine, Military Studies, Professional Studies and Science together with the Australian Graduate School of Management. In addition, the Board of Studies in General Education fulfils a function similar to that of the faculties. The Board of Studies in Science and Mathematics, which was established to facilitate the joint academic administration of the Science and Mathematics degree course by the Faculties of Biological Sciences and Science, considers and reports to the Professorial Board on all matters relating to studies, lectures and examinations in the science and mathematics degree course.

The Schools

Once courses of study have been approved they come under the control of the individual Schools (eg the School of Chemistry, the School of Mathematics). The Head of the School in which you are studying is the person in this academic structure with whom you will be most directly concerned.
Executive Officers

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

He is assisted in this task by three Pro-Vice-Chancellors, Professor John Thornton, Professor Ray Golding and Professor Rex Vowels, together with the Deans and the three heads of the administrative divisions.

General Administration

The administration of general matters within the University comes mainly within the province of the Registrar, Mr Ian Way, the Bursar, Mr Tom Daly, and the Business Manager (Property).

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

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

The Property Division is responsible for the building program and the 'household' services of the University (including electricity, telephones, cleaning, traffic and parking control and maintenance of buildings and grounds).

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 no longer published in the Faculty handbooks. Separate lists are issued early in the year and are available at key points on the campus.

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) are available from individual schools.

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/Board. Elections are for a one-year term of office.

Open Faculty/Board Meetings

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

Award of the University Medal

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

Co-operative Bookshop

Membership is open to all students, on initial payment of a fee of $10, refundable when membership is terminated. Members receive an annual rebate on purchases of books.

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 G55, Morven Brown Building, phone 3476.
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 450 men and women students, as well as staff members. Fees are payable on a session basis. Apply in writing to the Master, Mr K. W. Bromham, PO Box 24, Kensington, NSW 2033.

International House

International House accommodates 154 students from Australia and up to thirty other countries. Preference is given to more senior undergraduates and graduate students. Apply in writing to the Warden, Emeritus Professor J. S. Ratcliffe, 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 sponsors a wide range of sporting and social activities. Apply to Dr Stuart Barton Babbage, 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, Dr S. Engelberg, Shalom College, the University of New South Wales, PO Box 1, Kensington, NSW 2033.

Warrane College

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

Creston Residence

Creston Residence offers accommodation for 25 full-time undergraduate and graduate women students without restriction of denomination or nationality. Non-resident membership provides students with the opportunity to participate in the activities of the Residence and to make use of its facilities. Creston is directed by the Women's Section of Opus Dei, a Catholic lay association. Enquiries should be addressed to the Principal, 36 High Street, Randwick, NSW 2031.

Other Accommodation

Off-campus Accommodation

Students requiring other than College accommodation may contact the Housing Officer in the Student Amenities and Recreation Section for assistance in obtaining suitable accommodation in the way of full board, room with cooking facilities, flats, houses, share flats etc. Extensive listings of all varieties of housing are kept up-to-date throughout the year and during vacations. 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 now includes some thirty-eight clubs.

The Association office is situated in Hut E15C near the foot of Basser Steps, and can be contacted on extension...
The control of the Association is vested in the General Committee comprising delegates from the thirty-eight clubs.

Membership is compulsory for all registered students, and the annual fee is $11. Membership is also open to all members of staff and graduates of the University on payment of an annual fee as prescribed in the By-Laws of the Association. All members are invited to take part in any of the activities arranged by the Association, and to make use of the University's sporting and recreational facilities.

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

School and Faculty Associations

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

Deputy Registrar (Student Services)

The Deputy Registrar (Student Services), Mr Peter O'Brien, and his administrative Assistant, Mrs Anne Beaumont, are located on the first floor of the Chancellery.

They will help 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 general enquiries they are especially concerned with the problems of physically handicapped and disabled students and those in need of financial assistance. The latter students should see Mrs Beaumont.

All enquiries should be made either at room 148E or by telephoning extension 2482 (general enquiries) or 3164 (financial assistance).

Student Amenities and Recreation Section

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

The Section is responsible for the continuing management of the Physical and Recreational Centre at which recreational programs are available for both students and staff; makes bookings for use of sports facilities; and in consultation with the Sports Association assists various recognized clubs.

Mr I. Moutray is the Head of the Section, which is located in the huts at the foot of Basser Steps. The various services may be contacted by phone on the following extensions: Recreation Program 3271; Grounds Bookings 2235; Sports Association 2673.

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 in 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.

Physical Education and Recreation Centre

The Student Amenities 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, 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. The recreational program includes intramurals, teaching/coaching, camping. The Centre is located on the lower campus adjacent to High Street. The Supervisor at PERC may be contacted on extension 3271.
Student Counselling and Research Unit

The Student Counselling and Research Unit has both service and research and development functions. The service function is to help clients — students, prospective students, parents and other concerned persons — improve their approach to planning, decision-making and coping with academic, vocational and personal aspects of their life. The research and development function is to develop and evaluate counselling practices and programs and to assist in improving the quality of student life.

Appointments for counselling consultations are available from 9 am to 7 pm, and may be made by phoning 663 0351 extension 3681 and 3685 or by calling at the Unit, which is located at the foot of Basser Steps. In urgent cases interviews can be given on a walk-in basis between 9 am and 5 pm.

Student Employment Section

The Student Employment Section provides assistance with careers and 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 industrial or professional employment during long vacations as required by undergraduates in Engineering and Applied Science.

The Section is located in the Chancellery.

For further information, telephone as follows: careers and employment assistance 3259 or 3630; long vacation industrial training 2086.

Student Health Unit

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

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

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

Appointments may be made by calling at the centre or by telephone extension 2679, 3275 or 3841 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 and the annual subscription is $17 for full-time students and $13 for part-time students. All Alumni of the University are eligible for Life 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.

A full-time President, elected each year by popular ballot, directs the entire administration of the Students' Union and its activities, assisted by a Secretary-Treasurer.
Other officers are the Education Vice-President who works towards the implementation of Students' Union education policy; the Welfare-Research Officer concerned with helping students with problems they may encounter in the University; the Electronic Media Officer; 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. Infakt — a student-run information referral service for students who want someone to talk to or need help of any kind. Infakt is located in the bus at the foot of Basser Steps.

2. A casual employment service.

3. Organization of orientation for new students.

4. Organization of Foundation Day.

5. The University's two child care centres.

6. Publication of the student paper Tharunka.

7. A free legal service run by a qualified lawyer employed by the Students' Union Council.

8. SU Record Shop which offers discount records and tapes.

9. The Nuthouse which deals in bulk and health foods.

10. Secondhand Bookshop for cheap texts.

11. CASOC (Clubs and Societies on Campus) which provides money from the SU for affiliated clubs and societies on campus.

12. The sale of electronic calculators and accessories at discount rates.


The SU office is located on the Second Floor, Stage III, the Union.

The University Library

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

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 Broken Hill Division in the W.S. and L.B. Robinson University College building (telephone 6022/3/4).

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

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

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

The University Union

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

The Union is housed in three buildings near the entrance to the Kensington Campus from Anzac Parade. These are the Roundhouse, the Blockhouse and the Squarehouse. Membership of the Union is compulsory at $55 per year 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 President is Mr R. P. Hammond.

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

The University Union should not be confused with the Students' Union or Students' Representative Council as it is known in some other universities. This latter body has a representative function and is the instrument whereby student attitudes and opinions are crystallized and presented to the University and the community.
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 incomes from vacation or spare-time work would also be needed.

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

- Undergraduate and graduate bachelor degree courses
- Graduate diplomas
- Approved combined bachelor degree courses
- Master's qualifying courses (one year)

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

Tertiary students receiving an allowance, and prospective tertiary students, will be sent application forms in January 1981. Forms will also be available from the Admissions Section or the Student Employment Section, or from the Director, Department of Education, 59 Goulburn Street, Sydney, NSW 2000 (telephone 218 8800). Continuing students should submit applications as soon as examination results are available. New students should apply by 31 March 1981, otherwise benefits will not be paid for the earlier months of the year.

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.

3. Early in 1973 the Commonwealth Government made funds available to the University to provide loans to students in financial difficulty. The loans are to provide for living allowances and other approved expenses associated with attendance at university. Repayment usually commences after graduation or upon withdrawal from the course. Students are required to enter into a formal agreement with the University to repay the loan. The University is unable to provide from the fund amounts large enough for all or even a major part of the living expenses of a student.

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

The University has also been the recipient of generous 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 the Deputy Registrar (Student Services), Room 148E, in 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, the University may assist Aboriginal students with loans to meet some essential living expenses.

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

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

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.

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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. Therefore, any student who after reading the rules carefully requires further information on their application should contact the Admissions Office or the Registrar.
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 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 Admissions Office, located 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 there. The Admissions Office is open from 9 am to 5 pm Monday to Friday. During enrolment the office is also open for some part of the evening.

The office provides information about special admission, admission with advanced standing and admission on overseas qualifications. The office also receives applications from students who wish to transfer from one course to another, resume their studies after an absence of twelve months or more, or seek any concession in relation to a course in which they are enrolled. It is essential that the closing dates for lodgement of applications are adhered to. For further details see the section on Undergraduate and Graduate Enrolment Procedures and Fees.

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

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

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

An Adviser for Prospective Students, Mrs Fay Lindsay, is located in the Chancellery, 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 the three universities in the Sydney Metropolitan area (Macquarie University, the University of New South Wales and the University of Sydney) are required to lodge a single application form with the Universities and Colleges Admissions Centre, Challis House, 10 Martin Place, Sydney 2000 (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 three universities and eighteen other tertiary institutions. Students are notified individually of the result of their applications and provided with information regarding the procedures to be followed in order to accept the offer of a place at this University. Enrolment is completed at the Enrolment Bureau, Unisearch House, 221 Anzac Parade, Kensington.

Deferment of First Year Enrolment

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

Enrolment Procedures and Fees

Schedules 1981

1. Introduction

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

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

Such vouchers and authorities are generally issued by the NSW Department of Education and the NSW Public Service. They are not always issued in time and students who expect to receive an enrolment voucher or other appropriate authority but have not done so must pay the fees and arrange a refund later. Such vouchers and authorities are not the responsibility of the University and their late receipt is not to be assumed as automatically exempting a student from the requirements of enrolling and paying fees.
If a student is unable to pay the fees the enrolment form must still be lodged with the Cashier and the student will be issued with a 'nil' receipt. The student is then indebted to the University and must pay the fees by the end of the second week of the session for which enrolment is being effected. Penalties apply if fees are paid after that time (see section 16, below) unless the student has obtained an extension of time in which to pay fees from the office of the Deputy Registrar (Student Services) (Room 148E, the Chancellery). Such an application must be made before the fee is due. Payment may be made through the mail, in which case it is important that the student registration number be given accurately. Cash should not be sent through the mail.

2. New Undergraduate Enrolments

Persons who are applying for entry in 1981 must lodge an application for selection with the Universities and Colleges Admissions Centre, GPO Box 7049, Sydney 2001, by 1 October 1980.

Those who are selected will be required to complete enrolment at a specified time before the start of Session 1. Compulsory 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 Admissions Office.

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 Admissions Office and from School offices. Those who have completed part of a course and have been absent without leave need to apply for entry through the Universities and Colleges Admissions Centre, GPO Box 7049, Sydney 2001, by 1 October 1980.

4. Restrictions Upon Re-enrolling

Students who in 1980 have infringed the rules governing re-enrolment should not attempt to re-enrol in 1981 but should follow the written instructions they will receive from the Registrar.

5. New Research Students

Students enrolling for the first time in graduate research degree courses will receive an enrolment form by post. They have two weeks from the date of offer of registration in which to lodge the enrolment form with the Cashier and pay the appropriate fees. Completion of enrolment after this time will incur a penalty (see section 16, below).

6. Re-enrolling Research Students

Students enrolled in purely research degree programs will be re-enrolled each year and sent an account for any fees due, unless they have lodged a thesis or their registration has been cancelled or suspended.

7. Submission of Graduate Thesis or Project Report

Graduate students who at the commencement of Session 1 have completed all the work for a degree or diploma except for the submission of the relevant thesis or 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) but students enrolled in purely research degree programs will be re-enrolled automatically (see section 6, above).

Information about possible 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 be permitted to be enrolled as a miscellaneous student in that subject.

3. A student who is under exclusion from any course in the University may not be permitted to 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 in accordance with the rules relating to Admission with Advanced Standing, save that a student may not receive standing for any subject completed as a miscellaneous student while under exclusion from a course of the University.

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 (13 March 1981) except with the express approval of the Deputy Registrar (Student Services) and the Heads of the Schools concerned; no later year enrolments for courses extending over the whole year or for Session 1 only will be accepted after the end of the fourth week of Session 1 (27 March 1981) except with the express approval of the
Deputy Registrar (Student Services) and the Heads of the Schools concerned; no later year enrolments for courses extending over the whole year or for Session 1 only will be accepted after the end of the fourth week of Session 1 (27 March 1981) except with the express approval of the Deputy Registrar (Student Services) and the Heads of Schools concerned. No enrolments for courses in Session 2 only will be accepted after the end of the second week of Session 2 (31 July 1981) except with the express approval of the Deputy Registrar (Student Services) and the Heads of Schools concerned.

10. University of New South Wales and University Union Membership Card

All students enrolled in degree or diploma courses or as miscellaneous students, except those exempt from fees under provisions of section 17, below, are issued with a University of New South Wales and University Union Membership Card. This card must be carried during attendance at the University and shown on official request.

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

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

Life members of the University Union and those exempt from payment of University Union fees, if enrolled in degree or diploma courses or miscellaneous students use the University's fees receipt in place of the card when applying for travel concessions and when notifying a change of address. The University Library issues a library borrowing card on production of the fees receipt.

A student who loses a card must notify the University Union as soon as possible.

New students are issued with cards on enrolment if eligible.

11. Payment of Fees

There are no fees for tuition but other fees and charges are payable. These 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 complete their enrolment by paying their own fees.

A refund of fees will be made when the enrolment voucher or letter of authority is subsequently lodged with the Cashier.

Those unable to pay their own fees in these circumstances can apply to the office of the Deputy Registrar (Student Services) (Room 148E, the Chancellery) for an extension of time in which to pay. Such an application must be made before the fees are due.

13. Extension of Time

Any student who is unable to pay fees by the due date may apply to the office of the Deputy Registrar (Student Services) (Room 148E, the Chancellery) for an extension of time, which may be granted in extenuating circumstances. Such applications must be made before the due date.

14. Failure to Pay Fees and Other Debts

Any student who fails to pay prescribed fees or charges or is otherwise indebted to the University and who fails either to make a satisfactory settlement of his indebtedness upon receipt of due notice or to receive a special exemption ceases to be entitled to the use of University facilities. Such a student is not permitted to register for a further session, to attend classes or examinations, or to be granted any official credentials. In the case of a student enrolled for Session 1 only or for both Sessions 1 and 2 this disbarment applies if any portion of fees is outstanding after the end of the eighth week of Session 1 (24 April 1981). In the case of a student enrolled for Session 2 only this disbarment applies if any portion of fees is outstanding after the end of the sixth week of Session 2 (28 August 1981).

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. Student Fees

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

All students (with the exceptions set out in section 17, below) will be required to pay the following fees if enrolling for a program involving two sessions. Those enrolling for only one session will pay 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, not at the office of the Deputy Registrar (Student Services) or at the Cashier’s office.

Students often seek exemption from the 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.

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*.

(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 W. S. and L. B. Robinson University College and in the Faculty of Military Studies are exempt from the fees 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 Deputy Registrar (Student Services) for students enrolled in graduate courses in which the formal academic requirements are undertaken at a part of the University away from the Kensington campus.

(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**.

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

(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 Deputy Registrar (Student

*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, not at the office of the Deputy Registrar (Student Services) or at the Cashier’s office.

**Institutions approved are: New South Wales Institute of Technology and Alexander Mackie College of Advanced Education.

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.
Services) 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 1, except for the submission of the relevant thesis or project report, may be exempted from the payment of Student Activities Fees by the Deputy Registrar (Student Services) 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 form available from the appropriate Course Authority.

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

(3) Enrolment in additional subjects

Applications for enrolment in additional subjects must be submitted by:

27 March 1981 for Session 1 only and whole year subjects;
14 August 1981 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 (17 April or 4 September)
(b) for whole year subjects, the end of the second week of Session 2 (31 July).

(5) Withdrawal from Course – Refunds

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

(a) If notice of withdrawal from a course is received by the Registrar before the first day of Session 1, a refund of all fees paid will be made

(b) If notice of withdrawal is received on or after the first day of Session 1:

(i) a partial refund of the University Union Entrance Fee will be made on the following bases: 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 his membership in the immediately succeeding year, may on written application to the Warden receive a refund of half the entrance fee paid.

(ii) if the notice of withdrawal is given before the end of the fourth week of Session 1 (27 March 1981) a full refund of other Student Activities Fees paid will be made; if notice is given before the end of the eighth week of Session 1 (24 April 1981) a refund of one half of the other Student Activities Fees paid will be made; thereafter no refund will be made except that provided for in (iii) below.

(iii) if a student's enrolment in any year is for Session 2 only and the student gives notice of withdrawal prior to the end of the fourth week of Session 2 (14 August 1981) a full refund of Student Activities Fees paid (other than the University Union Entrance Fee for which see item (i) above) will be made; if notice is given before the end of the eighth week of Session 2 (11 September 1981) a refund of one half of the other Student Activities Fees paid will be made; thereafter no refund will be made.

(iv) The refunds mentioned in (ii) and (iii) above may be granted by the Deputy Registrar (Student Services) to a student unable to notify the Registrar in writing by the times required provided evidence is supplied that the student had ceased attendance by those times.

(6) Acknowledgements

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

(a) variations lodged before the Friday of the seventh week of each session (17 April or 4 September) will be incorporated in the Confirmation of Enrolment Program notice forwarded to students on 27 April or 14 September as appropriate

(b) variations lodged after those dates will be acknowledged by letter

(c) withdrawals from a course are acknowledged individually whenever they are lodged.

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

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

Private Overseas Students

Private overseas students should visit the Commonwealth Department of Education immediately on first arrival in Australia. The address is Sydney Plaza Building, 59 Goulburn Street, Sydney.

Private overseas students continuing their studies should confirm their enrolment with the Commonwealth Department of Education as early as possible each year in order to ensure that arrangements for the extension of their temporary entry permits can be made.

All private overseas students must advise the Department if they change their term residential address during the year. Telephone enquiries should be directed to (02) 216 8923, and country students may reverse the charge for the call.

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.

Students who withdraw from the first year of their course are not granted leave of absence and must again apply for a place through the Universities and Colleges Admissions Centre.

Course Transfers

Students wishing to transfer from one course to another must complete and submit an application form, obtainable from the Admissions Office, the Chancellery, by Friday 9 January 1981.

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

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

Students should also advise the enrolling officer in the school in which they were enrolled in 1980 of their intention to transfer.

Admission with Advanced Standing

Any person who makes 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 a student transfers from another university such student shall not in general be granted standing in this University which is superior to what he has in the University from which he transfers;
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 applicant, shall not be such as will permit the applicant to qualify for the degree or award for which he seeks to register without completing the courses of instruction and passing the examinations in at least those subjects comprising the latter half of the course, save that where such a program of studies would involve the applicant repeating courses of instruction in which the Board deems the applicant 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 applicant to qualify for the degree or award for which he seeks to register by satisfactory completion of a program of study deemed by the Board to be less than that required of a student in full-time attendance in the final year of the course in which the applicant seeks 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 applicant seeks to transfer for work done in the course from which the student transfers.

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, then a student who merely completes 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 Admissions Office before November in the year preceding the one in which they wish to resume their course.

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

Examinations

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

Provisional timetables indicating the dates and times of examinations are posted on the University noticeboards.

Students must advise the Examinations Unit (the Chancellery) of any clash in examinations. Final timetables indicating the dates, times, locations, and authorized aids 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 an examination.

Assessment of Course Progress

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

Examination Results

Grading of Passes

Passes will be graded as follows:

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

Pass Conceded

A pass conceded may be granted to a student whose overall performance warrants consideration in a subject where the mark obtained is slightly below the standard required for a pass.

A pass conceded in a subject will normally allow progression to another subject for which the former subject is a prerequisite. In a particular subject, however, a subject authority may specify that a pass conceded is insufficient to meet a particular subject prerequisite.

Availability of Results

Final examination results will be posted to a student's term address, or vacation address if requested. Change of address forms and forms requesting that results be posted to a vacation address are included in the examination timetable and are obtainable at the Student Enquiry Counter, the Chancellery. Both forms can be accepted up to Friday 27 November. 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 Examination Result 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. Applications made more than seven days after the final examination in a subject will only be considered in exceptional circumstances.

When submitting a request for special consideration students should provide all possible supporting evidence (e.g., 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 Student Records (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 the Examinations Unit to make special arrangements for their examinations, should contact Student Records as soon as the final timetable becomes available.

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

Examinations Held Away from the Campus
Except in the case of students enrolled in 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 Unit, 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. The examination paper will be available for reading ten minutes before commencement.

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 Examinations Unit not later than 14 days prior to the need to use the linguistic dictionary.

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.

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 its discretion at any time prior to the meeting of the relevant faculty assessment committee (normally the fourth week of the Mid-year 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 Mid-year 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 Students Re-enrolling
The University Council has adopted the following rules governing re-enrolment with the object of requiring students with a record of failure to show cause why they should be allowed to re-enrol and retain valuable class places.

First Year Rule
1. 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. Students shall be required to show cause if, in the opinion of the faculty or board of studies, their academic record is such as to demonstrate their lack of fitness to pursue a subject or subjects and/or course or courses.

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 examinations 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

* See reference to Schedule A on next page.
course and/or subject shall indicate that they may appeal against that decision to the Appeal Committee. The appeal must be lodged with the Registrar within fourteen days of the date of notification of exclusion; in special circumstances a late appeal may be accepted at the discretion of the Chairman of the Appeal Committee. In lodging such an appeal with the Registrar students should provide a complete statement of all grounds on which the appeal is based.

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

Exclusion

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

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

Re-admission after Exclusion

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

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

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

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

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

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

Restrictions and Definitions

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

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

Schedule A

The prescribed ‘minimum number of subjects units or credits’ for the purposes of determining liability under the ‘First Year Rule’ is under consideration by faculties and boards of studies at the time of printing. An up-to-date list may be obtained from the Registrar.

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 first Tuesday 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 Enrolment Details form in September (or, in the case of students who expect to satisfy requirements at the end of Session 1, with the form issued in
Absence from Classes

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.

The Registrar will acknowledge receipt of the application form within two weeks. If no acknowledgement is received within that period students should contact the Student Records Section immediately.

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 December.

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 second 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 second 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 course or subject in which they are enrolled. All applications for exemption from attendance at lectures or practical classes must be made in writing to the Registrar.

In the case of illness or of absence for some other unavoidable cause 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 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 27 April and 14 September. It is not necessary to return these forms unless any of the information recorded is incorrect. Amended forms must be returned to the Student Records Section within fourteen days. Amendments notified after the closing date will not be accepted unless exceptional circumstances exist and approval is obtained from the Registrar. Amended forms returned to the Registrar will be acknowledged in writing within fourteen days.

Release of Information to Third Parties

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

In spite of the policy, there are sometimes accusations made that the University has revealed information, including addresses (especially to insurance companies).

All students should be aware that students' addresses are eagerly sought by various commercial agents and that sometimes tricks are used to obtain them. For example, from time to time people claiming to be from the University telephone students or their families and ask for information (usually another student's address) which is often given, unsuspectingly. There is evidence that this is a technique used by commercial agents.

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

The Student Records Section of the Registrar’s Division should be notified as soon as possible of any change of address. Failure to do this could lead to important correspondence (including examination results) 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, including examination results, will be sent to the Session or Term address except when arrangements are made otherwise in the case of examination results (see Examinations: Availability of Results, earlier in this section). Change of Address Advice forms will be accepted up to Friday 27 November, 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.

Parkin 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 Alumni Office, Room 148E, the Chancellery (phone extension 2998).

Further Information

Lost Property

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

The Calendar

Please consult the Calendar for a more detailed account of the information contained in this section.
Vice-Chancellor’s Official Welcome to New Students

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

Full-time Students
In the Faculties of Architecture, Arts, Biological Sciences, Commerce, Law:
Thursday 26 February 1981
11 am in the Clancy Auditorium

In the Faculties of Applied Science, Engineering, Medicine, Professional Studies, Science, and the Board of Studies in Science and Mathematics:
Friday 27 February 1981
11 am in the Clancy Auditorium

Part-time Students
Thursday 26 February 1981
6.30 pm in the Clancy Auditorium

Meeting for Parents of New Students
Friday 27 February 1981
7.30 pm in the Clancy Auditorium
Foreword

Since the beginning of recorded history man has sought to endow his environment with physical and spiritual qualities appropriate to his way of life. He has developed the materials and techniques available to him to adapt the natural environment to his own purposes, and in so doing has endeavoured to create buildings of enduring beauty. In each great culture of the past this search produced characteristic architecture which reflected the aspirations and the capabilities of its age.

To-day all of those concerned with the quality of our physical environment are faced with problems of increasing difficulty resulting from the complexity of modern requirements, and the range and diversity of the new materials and techniques available to them. For the first time in history material progress threatens to outstrip man’s visionary and creative powers and to overwhelm his capacity for assimilation.

The professions working in the field of the built environment will be called upon to provide new solutions to problems resulting from the accelerating rate of population growth and from man’s impact on the environment. They will have to strive to create a built environment worthy of the opportunities which science and technology are placing at their disposal.

The courses offered by the Faculty are designed to combine education in the specific professional field selected by the student with a broad general education in the environmental fields. The undergraduate courses aim to prepare the student for the vocation of his choice, and opportunities for further study and research at graduate level are available for those who seek to enrol for higher degrees.
Faculty Information

Who to Contact

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

Mr Paul Johnson, Executive Assistant to the Dean, Faculty of Architecture
Room 102, Architecture Building. Extension 2300.

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

Professor Eric Daniels, School of Architecture

Associate Professor Finn Thorvaldson, School of Landscape Architecture
Room 508, Architecture Building. Extension 3425.

Mrs Noela Jorm, School of Building

Professor Hans Westerman, School of Town Planning
Room 209, Old Main Building. Extension 2307.

Dr Bill Lawson, Department of Industrial Arts
Room 101, Hut 34, Western Campus. Extension 2496.

Professor J. M. Freeland, Graduate School of the Built Environment
Room 200, Architecture Building. Extension 2301.

Faculty of Architecture Enrolment Procedures

All students re-enrolling in 1981 should obtain a copy of the free booklet Architecture Enrolment Procedures 1981 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.

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 Third and Fourth year students.

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 Architecture Enrolment Procedures 1981.

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.

In addition, in the School of Town Planning and School of Landscape Architecture, where the academic record of students is not of satisfactory standard, the Head of School may recommend a restricted program.

**The Undergraduate Library**

This library caters for the library needs of first and second year students and other groups where large numbers require mass teaching.

The Undergraduate Library provides a reader education program and reader assistance service aimed at teaching students the basic principles of finding information.

Services of particular interest to undergraduates and academic staff are:

- **The Open Reserve Section**, housing books and other material which are required reading.
- **The Audio-Visual Section**, containing cassette tapes mainly lectures and other spoken word material. The Audio-Visual Section has wired study carrels and cassette players for student use.

Undergraduate Librarian  Pat Howard

**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 Library.

**The Physical Sciences Library**

This library serves the information needs of the undergraduate students, graduate students and members of the academic staff. It contains books, a large collection of journals and guides to the use of the literature in the forms of abstracting and indexing journals in the subject areas of pure science, technology and architecture. The library also houses a growing map collection and some microfilm material. All material in the library bears the prefix 'P' and is indexed in the library's catalogue on Level 2. There is also a catalogue in the Physical Sciences Library. Seating is for approximately 300 people. A number of room carrels and seminar rooms are available for use. Photocopying facilities are provided but journals may not be borrowed from the collection. Library staff on Level 7 are happy to assist readers with enquiries. Further details are contained in the Physical Sciences Library guide.

The Studio Collection contains a small amount of material which duplicates that contained in the Physical Sciences Library. The Studio Collection is open 9.30 am to 4.30 pm Monday to Friday, and material cannot be borrowed from the library.

Students will also wish to use the Undergraduate Library for associated reading.

**The 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 Laboratory 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 structure.
- Applications of motor-mesh (ferro-cimento) structures in building.

Physical Sciences Librarian  Marian Bate
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

The Faculty has established a laboratory for research and teaching of computing methods, with particular emphasis on the use of computer graphics. The laboratory, situated in the Architecture Building, has the following major equipment: PDP 11/40 computer with maximum configuration in memory and disk; Tektronix storage tube graphics terminals with hard copy and digitizing capability; a refresh screen computer-based graphics terminal with light pen; card reader, printer plotter, and several interactive terminals.

The above equipment is optionally connected by data link to the University's central computing system, a major Cyber 72/171 multiprocessor configuration. 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.

Industrial Arts Society

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

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

Student 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, the School of Building, the Department of Industrial Arts, the School of Landscape Architecture, the School of Town Planning and the Graduate School of the Built Environment. These Schools and Department conduct undergraduate courses in the fields of architecture, building, town planning, landscape architecture and industrial arts. 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
Professor Eric C. Daniels
Administrative Officer
Mr R. Watkins

Architecture is concerned with the design and construction of buildings. Today the process of design and construction reflects the increasingly technological age in which we live, and contemporary architects require a wide range of knowledge and skills if they are to fulfil their important role in society. Foremost amongst the architect's skills is the ability to design, for it is as designers that architects make their greatest contribution to society. But the practice of architecture involves knowledge in such diverse fields as structures, economics, law, and an understanding of broad environmental factors. Architecture is a synthesis of art and science, and, while it is essential for the courses offered by the School to reflect the advances in science and technology on the one hand, and the changing needs of society on the other, it is also important that they encourage students to develop their own interests and creative abilities within the framework of the undergraduate courses offered by the School.

The courses in Architecture currently offered are the:

Bachelor of Architecture Course (3270/3280) and the
Bachelor of Science (Architecture) Course (3270/3290).

These courses replace the previously offered Bachelor of Science (Architecture) course (3370) and Bachelor of Architecture course (3300).

Courses 3270, 3280 and 3290 were offered to students who commenced their studies in 1978; in 1979 they were offered to all students in the School except those who were enrolling in Year 3 of Course 3300.

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

These undergraduate courses lead to the award of the BSc(Arch) pass degree, the BSc(Arch) degree with honours, 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, and it is expected that students
take a program of 26 credit points 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>Minimum time (semesters)</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc(Arch) pass degree</td>
<td>6</td>
</tr>
<tr>
<td>BSc(Arch) degree with Honours</td>
<td>8</td>
</tr>
<tr>
<td>BArch degree</td>
<td>10</td>
</tr>
<tr>
<td>BSc(Arch) and BArch degrees</td>
<td>11</td>
</tr>
</tbody>
</table>

Students commencing their studies in architecture enrol in the BSc(Arch)/BArch program (Course 3270) 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 130 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(Arch) degree or the BSc(Arch) degree with Honours transfer into the BSc(Arch) program (Course 3290).

Students may, with the approval of the Head of School, transfer from the BArch program to the BSc(Arch) program or from the BSc(Arch) to the BArch program. It should be noted that credit points gained in the BSc(Arch) program (Course 3290) cannot be credited towards the award of the BArch degree, and that credit points gained in the BArch program (Course 3280) cannot be credited towards the award of the BSc(Arch) degree.

Subjects are offered in accordance with a program to be approved annually. The program of study for students in the BSc(Arch) degree course, either the pass degree course or the honours 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 other Schools, Boards of Studies or Faculties of the University. The program of study for students in the BArch degree course and 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.

### Elective Subjects

<table>
<thead>
<tr>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
</tr>
<tr>
<td>24</td>
</tr>
<tr>
<td>26</td>
</tr>
</tbody>
</table>

The 26 credit points gained in the graduation semester may only be credited to the BSc(Arch) degree program.

### 3270/3290

**Bachelor of Science (Architecture)**

**Course — Pass**

**Bachelor of Science (Architecture) BSc(Arch)**

This course, leading to the award of the Bachelor of Science (Architecture) degree, aims to provide students with the opportunity to specialize in a particular field of architectural study in accordance with an approved program. A wide range of elective subjects in areas of study including history, the science of buildings, management, technology and design are provided. The course may be completed in a minimum of six semesters of full-time study and with the gaining of 156 credit points. The program of study is as follows:

### Mandatory Subjects

<table>
<thead>
<tr>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>First semester</td>
<td>25</td>
</tr>
<tr>
<td>Second semester</td>
<td>24</td>
</tr>
<tr>
<td>Graduation semester (including Graduation Project of 8 credit points)</td>
<td>26</td>
</tr>
</tbody>
</table>

### Elective Subjects

<table>
<thead>
<tr>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
</tr>
<tr>
<td>34</td>
</tr>
<tr>
<td>41</td>
</tr>
<tr>
<td>156</td>
</tr>
</tbody>
</table>

The 52 credit points gained in the Honours Semester may be credited only to the BSc(Arch) degree with Honours.
3270/3280
Bachelor of Architecture Course
Bachelor of Architecture
BArch

This course provides the academic education and training necessary to obtain professional qualifications in architecture. It aims to provide students with both practical and theoretical training, and to develop the skills and techniques involved in the design and construction of buildings and also contains a balance of building technology, science, history, practice, management and architectural design. The following program of study offers a range of elective subjects which enables students to major in areas of study of their choice:

Mandatory Subjects

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>First semester</td>
<td>25</td>
</tr>
<tr>
<td>Second semester</td>
<td>24</td>
</tr>
<tr>
<td>The core subjects listed in the schedule of subjects</td>
<td>92</td>
</tr>
</tbody>
</table>

Elective Subjects

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum of credit points which must be taken from subjects offered by the Department of General Studies</td>
<td>12</td>
</tr>
<tr>
<td>Minimum of credit points which must be taken from subjects offered by the Faculty of Architecture</td>
<td>48</td>
</tr>
<tr>
<td>Maximum of credit points which may be taken from subjects offered by other Schools, Boards of Studies and Faculties of the University</td>
<td>21</td>
</tr>
</tbody>
</table>

Thesis

<table>
<thead>
<tr>
<th>Thesis</th>
<th>Credit points</th>
<th>12</th>
</tr>
</thead>
</table>

Practical Experience

<table>
<thead>
<tr>
<th>Approved practical experience</th>
<th>Credit points</th>
<th>6</th>
</tr>
</thead>
</table>

Students are required to obtain six months’ practical experience in an architect’s office. The arrangements for this experience are to be approved by the School, and students are required to provide evidence of the scope and nature of the practical experience obtained. Students may not normally enrol in other subjects while obtaining approved practical experience. Honours for this degree may be awarded based on performance throughout the course.

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

1. Architectural Design
   - General
   - Specific
2. Architectural Environment
3. Technology
4. Practice
5. Communication

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).

Subjects of the First Two Semesters

The mandatory subjects of the first two semesters of all undergraduate courses in architecture are as follows:

First Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4101 Principles of Design</td>
<td>4</td>
</tr>
<tr>
<td>11.4301 Context of Architecture</td>
<td>5</td>
</tr>
<tr>
<td>11.4401 Principles of Construction</td>
<td>6</td>
</tr>
<tr>
<td>11.4402 Structures and Materials</td>
<td>4</td>
</tr>
<tr>
<td>11.4601 Introduction to Communication</td>
<td>6</td>
</tr>
</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4201 Living Unit</td>
<td>4</td>
</tr>
<tr>
<td>11.4303 Introduction to Architectural Science</td>
<td>4</td>
</tr>
<tr>
<td>11.4307 World Architecture</td>
<td>3</td>
</tr>
<tr>
<td>11.4403 Principles of Structures</td>
<td>4</td>
</tr>
<tr>
<td>11.4501 Practice and Management I</td>
<td>2</td>
</tr>
<tr>
<td>11.4602 Introduction to Computing</td>
<td>2</td>
</tr>
<tr>
<td>11.4603 Graphic Communication</td>
<td>5</td>
</tr>
</tbody>
</table>

In addition students may, in the Second Semester, take elective subjects up to the value of 3 credit points.

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 (Architecture) degree may be awarded with Honours after completion of the BSc(Arch) Honours program, in accordance with current Faculty regulations. Honours are Class I or Class II Division I or Class II Division II.

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 I or Class II Division I or Class II Division II.

Registration and Professional Recognition

In accordance with normal practice when courses are revised, the School of Architecture follows the procedures necessary to ensure that the revised Bachelor of Architecture degree is recognized by the Board of Architects of New South Wales for the purpose of legal registration.

It is anticipated that the introduction of the revised BSc(Arch) and BArch courses will not lead to any change to the conditions for 'Registration and Professional Recognition' as set out later in this section.

Courses 3270, 3280 and 3290: 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><strong>Architectural Design — General</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Core Subjects</strong></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 I</td>
<td>5</td>
<td>11.4101, 11.4201</td>
</tr>
<tr>
<td>11.4103</td>
<td>Design Theory II</td>
<td>5</td>
<td>11.4102</td>
</tr>
<tr>
<td></td>
<td><strong>Elective Subjects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4120</td>
<td>Design Theory III</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>11.4122</td>
<td>Theory of Architecture I</td>
<td>4</td>
<td>11.4103</td>
</tr>
<tr>
<td>11.4123</td>
<td>Theory of Architecture II</td>
<td>4</td>
<td>11.4122</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 I</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>11.4126</td>
<td>Interior Design II</td>
<td>4</td>
<td>11.4125</td>
</tr>
<tr>
<td>11.4127</td>
<td>Design for Conservation</td>
<td>4</td>
<td>11.4328</td>
</tr>
<tr>
<td>11.4128</td>
<td>Computed Design Projects</td>
<td>6</td>
<td>11.4602, 11.4103</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, 11.4201</td>
</tr>
<tr>
<td></td>
<td><strong>Architectural Design — Specific</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Core Subject</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4201</td>
<td>Living Unit</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td></td>
<td><strong>Core and Elective Subjects</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Students enrolled in or who have passed a Group D and/or Group E Design Specific subject may not take Electives in Group A or B.
| Group A                                 |               |                     |
| one subject compulsory,                |               |                     |
| the others may be taken as electives   |               |                     |
| 11.4211 | Cultural Facilities I               | 11.4102, 11.4303, 11.4401, 11.4403 |
| 11.4212 | Commercial Facilities I             |               |                     |
| 11.4213 | Health and Welfare Facilities I     |               |                     |
| 11.4214 | Educational Facilities I            |               |                     |
### Courses 3270, 3280 and 3290: Schedule of Subjects (continued)

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
</table>

**Architectural Design — Specific (continued)**

#### Core and Elective Subjects

##### Group B

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4221 Detached Houses</td>
<td>6</td>
<td>11.4102, 11.4303, 11.4401, 11.4403, 11.4404</td>
</tr>
<tr>
<td>11.4222 Group Dwellings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4223 Housing in Tropical, Sub-tropical and Arid Zones</td>
<td>6</td>
<td>11.4103, 11.4408, one from Group A and one from Group B</td>
</tr>
</tbody>
</table>

##### Group C

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4230 Community Facilities II*</td>
<td>12</td>
<td>11.4103, 11.4408, one from Group A and one from Group B</td>
</tr>
<tr>
<td>11.4231 Commercial Facilities II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4232 Industrial Facilities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4233 Health and Welfare Facilities II</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>11.4234 Government Facilities I</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

##### Group D

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4240 Residential Facilities II**</td>
<td>12</td>
<td>11.4103, 11.4405, 11.4407, one from Group A and one from Group B</td>
</tr>
<tr>
<td>11.4241 Urban Housing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4242 Low-Cost Housing</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>11.4243 Tourist Facilities</td>
<td></td>
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</tbody>
</table>

##### Group E

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4250 Community Facilities III***</td>
<td>16</td>
<td>11.4406, Credit grade or better in both one from Group C and one from Group D</td>
</tr>
<tr>
<td>11.4251 Educational Facilities II</td>
<td></td>
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<td>11.4252 Government Facilities II</td>
<td></td>
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<tr>
<td>11.4253 Cultural Facilities II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4254 Urban Development</td>
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<tr>
<td>11.4255 Recreational Facilities</td>
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<td>11.4256 Transport Buildings</td>
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<td></td>
</tr>
<tr>
<td>11.4257 Ecclesiastical Architecture</td>
<td></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.
## Courses 3270, 3280 and 3290: Schedule of Subjects (continued)

<table>
<thead>
<tr>
<th>No</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
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<tbody>
<tr>
<td></td>
<td><strong>Architectural Environment</strong></td>
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<tr>
<td></td>
<td><strong>Core Subjects</strong></td>
<td></td>
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<tr>
<td>11.4301</td>
<td>Context of Architecture</td>
<td>5</td>
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<tr>
<td>11.4303</td>
<td>Introduction to Architectural Science</td>
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<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>World Architecture</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>11.4309</td>
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<td></td>
<td><strong>Elective Subjects</strong></td>
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<tr>
<td>11.4320</td>
<td>Geometry</td>
<td>3</td>
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<tr>
<td>11.4321</td>
<td>Physics</td>
<td>4</td>
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<tr>
<td>11.4322</td>
<td>Solar Energy</td>
<td>2</td>
<td>11.4304, 11.4407</td>
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<td>11.4323</td>
<td>Room Acoustics</td>
<td>2</td>
<td>11.4306</td>
</tr>
<tr>
<td>11.4324</td>
<td>Lighting Design</td>
<td>2</td>
<td>11.4305</td>
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<td>11.4325</td>
<td>Tropical Architecture</td>
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<tr>
<td>11.4326</td>
<td>Acoustics Research</td>
<td>4</td>
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<tr>
<td>11.4327</td>
<td>Lighting Research</td>
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<td>11.4324</td>
</tr>
<tr>
<td>11.4328</td>
<td>Appropriate Technology</td>
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<td>11.4301, 11.4303</td>
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<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>
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<td>11.4332</td>
<td>Historical Research A</td>
<td>3</td>
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<td>11.4333</td>
<td>Historical Research B</td>
<td>3</td>
<td>11.4309, 145 credit points</td>
</tr>
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<td>11.4334</td>
<td>Historical Research C</td>
<td>3</td>
<td>11.4309, 145 credit points</td>
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<td>11.4335</td>
<td>Eastern Architecture</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, 11.4404</td>
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<tr>
<td>11.4340</td>
<td>Cognition &amp; Behaviour A</td>
<td>3</td>
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<td>11.4341</td>
<td>Cognition &amp; Behaviour B</td>
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<td>11.4342</td>
<td>Transport Systems</td>
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<td>Urban Planning</td>
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<td>Urbanism</td>
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<tr>
<td>11.4401</td>
<td>Principles of Construction</td>
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<tr>
<td>11.4402</td>
<td>Structures &amp; Materials</td>
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</tr>
<tr>
<td>11.4403</td>
<td>Principles of Structures</td>
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</table>
### Technology (continued)

#### Core Subjects

<table>
<thead>
<tr>
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<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4404</td>
<td>Structures &amp; Construction A</td>
<td>5</td>
<td>11.4401, 11.4402, 11.4403</td>
</tr>
<tr>
<td>11.4405</td>
<td>Structures &amp; Construction B</td>
<td>5</td>
<td>11.4401, 11.4402, 11.4403</td>
</tr>
<tr>
<td>11.4406</td>
<td>Systems in Building</td>
<td>4</td>
<td>11.4407, 11.4408</td>
</tr>
<tr>
<td>11.4407</td>
<td>Services A</td>
<td>3</td>
<td>11.4303, 11.4404</td>
</tr>
<tr>
<td>11.4408</td>
<td>Services B</td>
<td>3</td>
<td>11.4304, 11.4404, 11.4405</td>
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</tbody>
</table>

#### Elective Subjects

<table>
<thead>
<tr>
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<th>Credit Points</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>11.4420</td>
<td>Technology for Low-rise Buildings</td>
<td>5</td>
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</tr>
<tr>
<td>11.4421</td>
<td>Technology for High-rise Buildings</td>
<td>5</td>
<td>11.4406</td>
</tr>
<tr>
<td>11.4422</td>
<td>Technology for Low-cost Housing</td>
<td>5</td>
<td>11.4406</td>
</tr>
<tr>
<td>11.4423</td>
<td>Rationalized Building Systems</td>
<td>3</td>
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<tr>
<td>11.4424</td>
<td>Const. Planning &amp; Management</td>
<td>3</td>
<td>11.4402, 11.4303</td>
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<tr>
<td>11.4425</td>
<td>Earth Construction A</td>
<td>3</td>
<td>11.4425</td>
</tr>
<tr>
<td>11.4426</td>
<td>Earth Construction B</td>
<td>3</td>
<td>11.4407, 11.4408</td>
</tr>
<tr>
<td>11.4430</td>
<td>Integration of Services</td>
<td>4</td>
<td>11.4402</td>
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<tr>
<td>11.4440</td>
<td>Building Materials A</td>
<td>2</td>
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<td>11.4441</td>
<td>Building Materials B</td>
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<td>11.4402, 11.4405</td>
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<tr>
<td>11.4450</td>
<td>Advanced Structural Analysis</td>
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<td>11.4404, 11.4405, 11.4602</td>
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<tr>
<td>11.4451</td>
<td>Advanced Structural Design</td>
<td>4</td>
<td>11.4404, 11.4405, 11.4602</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>3</td>
<td>11.4320, 11.4404, 11.4405</td>
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<tr>
<td>11.4454</td>
<td>Surface &amp; Spatial Structures B</td>
<td>5</td>
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<tr>
<td>11.4455</td>
<td>Technology Research A</td>
<td>5</td>
<td>156 credit points and 11.4405 or 11.4406</td>
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<tr>
<td>11.4456</td>
<td>Technology Research B</td>
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### Practice

#### Core Subjects

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<tr>
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</thead>
<tbody>
<tr>
<td>11.4501</td>
<td>Practice &amp; Management I</td>
<td>2</td>
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<tr>
<td>11.4502</td>
<td>Practice &amp; Management II</td>
<td>2</td>
<td>11.4501</td>
</tr>
<tr>
<td>11.4503</td>
<td>Specifications &amp; Building Economics</td>
<td>3</td>
<td>11.4502</td>
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<tr>
<td>11.4504</td>
<td>Building Contracts</td>
<td>2</td>
<td>11.4503</td>
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<tr>
<td>11.4505</td>
<td>Contract Administration</td>
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#### Elective Subjects

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<th>No.</th>
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<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4520</td>
<td>Management Systems &amp; Finance</td>
<td>2</td>
<td>11.4505</td>
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<tr>
<td>11.4521</td>
<td>Documentation</td>
<td>3</td>
<td>11.4503</td>
</tr>
<tr>
<td>11.4522</td>
<td>Building Economics &amp; Development</td>
<td>3</td>
<td>11.4503</td>
</tr>
<tr>
<td>11.4523</td>
<td>Management for Architects</td>
<td>2</td>
<td>11.4505</td>
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<tr>
<td>11.4524</td>
<td>The Architect and the Law</td>
<td>2</td>
<td>11.4505</td>
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<tr>
<td>11.4525</td>
<td>Project Management</td>
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<td>11.4505</td>
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<tr>
<td>11.4526</td>
<td>Industrial Relations</td>
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### Courses 3270, 3280 and 3290: Schedule of Subjects (continued)

<table>
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<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
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<tbody>
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<td>11.4601</td>
<td>Introduction to Communication</td>
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<tr>
<td>11.4602</td>
<td>Introduction to Computing</td>
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<tr>
<td>11.4603</td>
<td>Graphic Communication</td>
<td>5</td>
<td>nil</td>
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<tr>
<td>11.4604</td>
<td>Graphic Communication Theory</td>
<td>4</td>
<td>11.4601</td>
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</table>

### Communication

#### Core Subjects

<table>
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<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>11.4601</td>
<td>Introduction to Communication</td>
<td>6</td>
<td>nil</td>
</tr>
<tr>
<td>11.4602</td>
<td>Introduction to Computing</td>
<td>2</td>
<td>nil</td>
</tr>
<tr>
<td>11.4603</td>
<td>Graphic Communication</td>
<td>5</td>
<td>nil</td>
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<tr>
<td>11.4604</td>
<td>Graphic Communication Theory</td>
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### Elective Subjects

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<th>Credit Points</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>11.4620</td>
<td>Presentation Graphics</td>
<td>3</td>
<td>11.4603, 11.4604</td>
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<tr>
<td>11.4621</td>
<td>Oral &amp; Written Communication</td>
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<td>11.4601</td>
</tr>
<tr>
<td>11.4622</td>
<td>Spatial Communication</td>
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<td>nil</td>
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<tr>
<td>11.4623</td>
<td>Models &amp; Materials</td>
<td>3</td>
<td>nil</td>
</tr>
<tr>
<td>11.4624</td>
<td>Architectural Photography</td>
<td>3</td>
<td>nil</td>
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<tr>
<td>11.4625</td>
<td>Constructional Geometry</td>
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<td>11.4603</td>
</tr>
<tr>
<td>11.4626</td>
<td>Architectural Ceramics &amp; Sculpt.</td>
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<tr>
<td>11.4627</td>
<td>Computer Graphics</td>
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<tr>
<td>11.4628</td>
<td>Aspects of Style in Art</td>
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<td>11.4629</td>
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<tr>
<td>11.4629</td>
<td>Graphic Art</td>
<td>4</td>
<td>11.4604</td>
</tr>
<tr>
<td>11.4630</td>
<td>Drawing &amp; Painting</td>
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<td>11.4601</td>
</tr>
<tr>
<td>11.4631</td>
<td>Advanced Graphic Concepts</td>
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<td>11.4629</td>
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#### Other Required Studies

**BSc(Arch) Degree Course**

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>11.4701</td>
<td>Graduation Project</td>
<td>8</td>
<td>130 credit points</td>
</tr>
<tr>
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<td>General Studies Subjects</td>
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**BSc(Arch)(Hons) Degree Course**

<table>
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<th>No.</th>
<th>Subject Name</th>
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<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>11.4705</td>
<td>Honours Project</td>
<td>26</td>
<td>156 credit points</td>
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</table>

**BArch Degree Course**

<table>
<thead>
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<th>Subject Name</th>
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<tbody>
<tr>
<td>11.4702</td>
<td>Thesis</td>
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<td>156 credit points</td>
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<tr>
<td>11.4703</td>
<td>Practical Experience</td>
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<td></td>
<td>General Studies Subjects</td>
<td>12</td>
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#### Other Elective Studies

<table>
<thead>
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<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>11.4704</td>
<td>Architectural Research</td>
<td>4</td>
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</tr>
<tr>
<td>11.4706</td>
<td>Architecture Graduation Project</td>
<td>20</td>
<td>208 credit points. Selection on merit</td>
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</table>
Registration and Professional Recognition

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

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

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

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 Institute and the Board of Architects of New South Wales.

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 192 credit points (including 131 credit points from compulsory subjects and 9 credit points of General Studies subjects). Credit points are allocated to all compulsory and elective subjects.

Students, provided that they can satisfy the prerequisite requirements for subjects to be attempted, may choose that pattern and order of subjects which best suits individual requirements. Credit points generally correspond to work load in subjects.

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 Subject Descriptions for details.

Award of Honours

Honours are awarded on the basis of the quality of student performance in accordance with current Faculty regulations.

Professional Recognition

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

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, real-estate valuer, building-product manager and building scientist.

3330 Building Course

Bachelor of Building

BBuild

Note: The timetabling of subjects depends on the number of enrolments and on the number of students wishing to specialize in particular areas. While the intention is to offer each subject in every alternate semester, students should realize that the full range may not be offered in any one year.
## Schedule of Subjects

### Construction Studies Stream

#### Compulsory Subjects

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.500</td>
<td>Building Graphics</td>
<td>6</td>
<td>nil</td>
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<tr>
<td>35.501</td>
<td>Construction I</td>
<td>5</td>
<td>nil</td>
</tr>
<tr>
<td>35.502</td>
<td>Construction II</td>
<td>5</td>
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</tr>
<tr>
<td>35.503</td>
<td>Construction III</td>
<td>5</td>
<td>35.501</td>
</tr>
<tr>
<td>35.504</td>
<td>Construction IV</td>
<td>5</td>
<td>35.503</td>
</tr>
<tr>
<td>35.505</td>
<td>Construction V</td>
<td>5</td>
<td>35.504</td>
</tr>
<tr>
<td>29.411</td>
<td>Surveying for Architects and Builders</td>
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</tr>
<tr>
<td>35.551</td>
<td>Structures I</td>
<td>5</td>
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<tr>
<td>35.552</td>
<td>Structures II</td>
<td>5</td>
<td>35.551</td>
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<tr>
<td>35.553</td>
<td>Structures III</td>
<td>5</td>
<td>35.552</td>
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<tr>
<td>35.581</td>
<td>Hist. Devel. of Building</td>
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<td>nil</td>
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<tr>
<td>35.202</td>
<td>Soil Mechanics for Building</td>
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#### Elective Subjects

<table>
<thead>
<tr>
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<th>Subject</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.506</td>
<td>Construction VI</td>
<td>4</td>
<td>35.505, 35.703</td>
</tr>
<tr>
<td>35.507</td>
<td>Construction VII</td>
<td>4</td>
<td>35.505, 35.703</td>
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<tr>
<td>35.508</td>
<td>Construction VIII</td>
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<tr>
<td>35.554</td>
<td>Structures IV</td>
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<td>35.570</td>
<td>Environmental Studies</td>
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<tr>
<td>35.580</td>
<td>Building Design Analysis</td>
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<td>36.411</td>
<td>Town Planning</td>
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### Management Studies Stream

#### Compulsory Subjects

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</tr>
</thead>
<tbody>
<tr>
<td>35.701</td>
<td>Management I</td>
<td>4</td>
<td>nil</td>
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<tr>
<td>35.702</td>
<td>Management II</td>
<td>4</td>
<td>35.701</td>
</tr>
<tr>
<td>35.703</td>
<td>Management III</td>
<td>4</td>
<td>35.702</td>
</tr>
<tr>
<td>35.704</td>
<td>Management IV</td>
<td>4</td>
<td>35.702</td>
</tr>
<tr>
<td>14.051</td>
<td>Law for Builders I</td>
<td>2</td>
<td>nil</td>
</tr>
<tr>
<td>14.052</td>
<td>Law for Builders II</td>
<td>2</td>
<td>14.051</td>
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#### Elective Subjects

<table>
<thead>
<tr>
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<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>35.705</td>
<td>Management V</td>
<td>4</td>
<td>35.704</td>
</tr>
<tr>
<td>35.706</td>
<td>Management VI</td>
<td>4</td>
<td>35.704</td>
</tr>
<tr>
<td>35.707</td>
<td>Management VII</td>
<td>4</td>
<td>35.862, 14.002</td>
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<tr>
<td>35.708</td>
<td>Management VIII</td>
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<td>35.862, 14.002</td>
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<tr>
<td>35.710</td>
<td>Building Information Systems</td>
<td>4</td>
<td>14.001, 35.603</td>
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<td>35.720</td>
<td>Commercial Arbitration</td>
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<td>35.704</td>
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<td>14.053</td>
<td>Law for Builders III</td>
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<td>14.052</td>
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### Building Science Stream

#### Compulsory Subjects

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<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>1.931</td>
<td>Physics I (Building)</td>
<td>4</td>
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<tr>
<td>35.670</td>
<td>Mathematics for Builders</td>
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<tr>
<td>35.601</td>
<td>Building Science I (Materials)</td>
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</tr>
<tr>
<td>35.602</td>
<td>Building Science II (Energy)</td>
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<td>35.603</td>
<td>Building Science III (Computing)</td>
<td>5</td>
<td>35.670</td>
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<tr>
<td>35.651</td>
<td>Services I (Hydraulics)</td>
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<td>nil</td>
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<tr>
<td>35.652</td>
<td>Services II (Environmental)</td>
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<td>35.602</td>
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### Building Economics Stream

#### Compulsory Subjects

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<th>Credit Points</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>35.801</td>
<td>Quantity Surveying I</td>
<td>4</td>
<td>35.503</td>
</tr>
<tr>
<td>35.851</td>
<td>Building Economics I</td>
<td>6</td>
<td>14.002</td>
</tr>
<tr>
<td>35.870</td>
<td>Building Specifications</td>
<td>2</td>
<td>35.503</td>
</tr>
<tr>
<td>35.890</td>
<td>Property Valuation</td>
<td>2</td>
<td>35.503</td>
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<tr>
<td>14.001</td>
<td>Intro. to Accounting A</td>
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<td>nil</td>
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<tr>
<td>14.002</td>
<td>Intro. to Accounting B</td>
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<td>14.001</td>
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## Elective Subjects

<table>
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<tr>
<td>35.802</td>
<td>Quantity Surveying II</td>
<td>4</td>
<td>35.504, 35.870</td>
</tr>
<tr>
<td>35.803</td>
<td>Quantity Surveying III</td>
<td>2</td>
<td>35.802</td>
</tr>
<tr>
<td>35.862</td>
<td>Building Economics II</td>
<td>5</td>
<td>35.851</td>
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<tr>
<td>35.853</td>
<td>Building Economics III</td>
<td>5</td>
<td>35.862</td>
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<tr>
<td>35.880</td>
<td>Development Project</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>
<td>10</td>
<td>100 credit points</td>
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<tr>
<td>35.910</td>
<td>Industry Semester*</td>
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<td>35.503, 35.702</td>
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<tr>
<td></td>
<td>General Studies</td>
<td>3</td>
<td>nil</td>
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</tbody>
</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.

Three General Studies subjects are compulsory and are to be selected from the list of General Studies Electives available in the General Studies handbook.

## The Subject Matter of Industrial Arts

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

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

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

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

## The Industrial Arts Course

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

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

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# 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. At the graduate level, the Department offers Master of Science and Doctor of Philosophy degrees by research as well as a course in Industrial Design leading to the award of a Graduate Diploma.
The Industrial Arts course covers the major subject areas included in both the secondary and senior secondary school curricula. After completion of the degree, graduates will be eligible to become certificated by the Department of Education as four-year trained teachers.

The undergraduate degree also provides a sound basic education for people intending to seek employment in the design field.

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

### Year 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours per session</th>
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<tbody>
<tr>
<td>4.911</td>
<td>Materials Science</td>
<td>1½</td>
</tr>
<tr>
<td>12.001</td>
<td>Psychology I</td>
<td>5</td>
</tr>
<tr>
<td>21.3121</td>
<td>Traditional Technology I</td>
<td>4 or 4</td>
</tr>
<tr>
<td>21.3122</td>
<td>Craft IA</td>
<td>4 or 4</td>
</tr>
<tr>
<td>21.3123</td>
<td>Industrial Design I</td>
<td>4 or 4</td>
</tr>
<tr>
<td>21.3124</td>
<td>Graphics I</td>
<td>4</td>
</tr>
<tr>
<td>21.3125</td>
<td>Industrial and Social Organization I</td>
<td>1</td>
</tr>
<tr>
<td>21.3126</td>
<td>Project</td>
<td>2</td>
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<tr>
<td>21.3127</td>
<td>History of Art and Design</td>
<td>1</td>
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<tr>
<td>58.602</td>
<td>Theory of Education I</td>
<td>1</td>
</tr>
<tr>
<td>58.622</td>
<td>Industrial Arts Curriculum and Instruction I</td>
<td>3½</td>
</tr>
<tr>
<td>58.612</td>
<td>Teaching Practice I</td>
<td>10 days</td>
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### Year 3

<table>
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<th>Course Name</th>
<th>Hours per session</th>
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</thead>
<tbody>
<tr>
<td>4.951</td>
<td>Materials Technology</td>
<td>4</td>
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<tr>
<td>12.052</td>
<td>Basic Psychological Processes</td>
<td>4</td>
</tr>
<tr>
<td>12.062</td>
<td>Complex Psychological Processes</td>
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</tr>
<tr>
<td>12.152</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>21.3131</td>
<td>Traditional Technology II*</td>
<td>4</td>
</tr>
<tr>
<td>21.3132</td>
<td>Craft IIA*</td>
<td>4</td>
</tr>
<tr>
<td>21.3133</td>
<td>Industrial Design II*</td>
<td>4</td>
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<tr>
<td>21.3134</td>
<td>Graphics II*</td>
<td>4</td>
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<tr>
<td>21.3135</td>
<td>Industrial and Social Organization II</td>
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<tr>
<td>58.603</td>
<td>Theory of Education II</td>
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<td>58.623</td>
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<td>58.613</td>
<td>Teaching Practice II</td>
<td>10 days</td>
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### Year 4

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<tr>
<td>58.604</td>
<td>Theory of Education III</td>
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</tr>
<tr>
<td>58.624</td>
<td>Industrial Arts Curriculum and Instruction III</td>
<td>3</td>
</tr>
<tr>
<td>58.614</td>
<td>Teaching Practice III</td>
<td>10 days</td>
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</table>

**Psychology III comprises four units selected in consultation with the School of Psychology.
***One unit only to be chosen from 21.3141, 21.3142, 21.3143 and 21.3144.
Honours in Education

<table>
<thead>
<tr>
<th>Year</th>
<th>Subject</th>
<th>Hours per week</th>
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<tbody>
<tr>
<td>3</td>
<td>58 693</td>
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<tr>
<td>4</td>
<td>58 694</td>
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<td>5</td>
<td>58 695</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>58.699</td>
<td></td>
</tr>
</tbody>
</table>

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.

General Description of the Course

The course requires full-time attendances of approximately 22 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 Architecture, Botany, Geography and Town Planning, and the Department of General Studies.

School of Landscape Architecture

Acting Head of School
Associate Professor F. Thorvaldson

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.

Practical Experience

Students of the undergraduate course must obtain a total of six 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.

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.
Architecture

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 will be 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 structure which are initiated by the School.

Schedule of Subjects

<table>
<thead>
<tr>
<th>Year 1</th>
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</tr>
</thead>
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<tr>
<td>27.801</td>
<td>Introduction to Physical Geography*</td>
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<tr>
<td>37.6041</td>
<td>Landscape Graphics I</td>
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</tr>
<tr>
<td>37.7011</td>
<td>Landscape Graphics (Art) I</td>
<td>3</td>
</tr>
<tr>
<td>37.7101</td>
<td>Theory of Landscape Architecture</td>
<td>4</td>
</tr>
<tr>
<td>43.202</td>
<td>Plant Structure &amp; Function*</td>
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<tr>
<td>General Studies Elective</td>
<td>1½</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>23</td>
</tr>
</tbody>
</table>

Students may be required to participate in a practical construction program outside the metropolitan area, involving a field exercise of approximately one week duration.

* The course in Plant Structure and Function, Introduction to Physical Geography as well as Environment and the Landscape include a number of lectures and field trips for the purpose of practical observation. Field trips range from local trips within the metropolitan area to points as far afield as Moss Vale, Glenbrook and Gosford. The Faculty provides transport wherever possible, but in the majority of cases, students are expected to make their own transport arrangements for these trips.
## 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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<td>Year 2</td>
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<td>Man in His Environment</td>
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<td>Plants &amp; Planting Methods II</td>
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<td>Landscape Graphics (Art) III</td>
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</tr>
<tr>
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<td>37.6042, 37.7012, 37.9192</td>
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<tr>
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<td>History of Landscape Architecture</td>
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<td><strong>General Studies Elective</strong></td>
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<td>3</td>
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<td>Year 3</td>
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<td>37.3015</td>
<td>Environmental Impact Assessment I</td>
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<td></td>
<td><strong>Session 2</strong></td>
<td></td>
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<td>37.3016</td>
<td>Environmental Impact Assessment II</td>
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<td>37.3015</td>
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<tr>
<td>37.5813</td>
<td>Plants &amp; Environment</td>
<td>2</td>
<td>37.6353</td>
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<td>37.6246</td>
<td>Landscape Engineering II</td>
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<td>37.6245</td>
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<td>37.6586</td>
<td>Landscape Professional Practice II</td>
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</table>
### 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><strong>Year 4</strong></td>
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<tr>
<td></td>
<td><strong>Session 1</strong></td>
<td></td>
<td></td>
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<tr>
<td>37.3338</td>
<td>Landscape Conservation &amp; Rehabilitation</td>
<td>2</td>
<td>37.3016, 37.5813</td>
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<tr>
<td>37.6587</td>
<td>Landscape Professional Practice III</td>
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<td>37.6586</td>
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<td>37.7137</td>
<td>Landscape Design V</td>
<td>6</td>
<td>37.7136, three General Studies Electives</td>
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<tr>
<td>37.8087</td>
<td>Landscape Thesis</td>
<td>2</td>
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<tr>
<td>37.9997</td>
<td>Practical Experience</td>
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<td>37.6588</td>
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<td>37.7138</td>
<td>Landscape Design VI</td>
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<td>37.7137</td>
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<tr>
<td>37.8087</td>
<td>Landscape Thesis</td>
<td>4</td>
<td>See Session 1</td>
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<tr>
<td>37.9997</td>
<td>Practical Experience</td>
<td>2</td>
<td></td>
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<tr>
<td></td>
<td>General Studies Elective</td>
<td>1½</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

### 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 co-ordinate 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.

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 design and communication.

### General Description of the Course

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

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.

Year 1

<table>
<thead>
<tr>
<th>Session 1</th>
<th>Hours per week</th>
<th>Credit Points for honours</th>
</tr>
</thead>
<tbody>
<tr>
<td>36.211 Introduction to Planning</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>36.212 Planning Studies</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>36.213 Local Planning</td>
<td>12</td>
<td>14</td>
</tr>
<tr>
<td>11.135 Graphic Communication for Town Planners I</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>36.233 Environmental Science II</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>36.242 Land Economy</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>36.461 Engineering</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>21</strong></td>
<td><strong>24</strong></td>
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</table>

Year 2

<table>
<thead>
<tr>
<th>Session 1</th>
<th>Hours per week</th>
<th>Credit Points for honours</th>
</tr>
</thead>
<tbody>
<tr>
<td>36.214 Development Planning I</td>
<td>12</td>
<td>14</td>
</tr>
<tr>
<td>36.215 Statutory Planning I</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>36.225 Public Policy and Urban Government</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>36.235 Urban Sociology</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>36.451 History of Town Planning</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>36.461 Engineering</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>20</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session 2</th>
<th>Hours per week</th>
<th>Credit Points for honours</th>
</tr>
</thead>
<tbody>
<tr>
<td>36.503 Practical Experience</td>
<td>3</td>
<td>—</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>21</strong></td>
<td><strong>26</strong></td>
</tr>
</tbody>
</table>
### Year 4

#### Session 1
- 36.503 Practical Experience: 3 hours, 0 credit points for honours.

#### Session 2
- 36.218 Metropolitan Planning I: 14 hours, 15 credit points.
- 15.901 Economics for Town Planners: 2 hours, 3 credit points.
- 36.228 Transportation Planning: 2 hours, 3 credit points.
- Planning Elective*: 3 hours, 4 credit points.

Total: 21 hours, 25 credit points.

### Year 5

#### Session 1
- 36.219 Regional Planning I: 15 hours, 17 credit points.
- 36.437 Regional Survey Camp: 2 hours, 0 credit points.
- 36.491 Thesis: 3 hours, 0 credit points.

Total: 20 hours, 17 credit points.

#### Session 2
- 36.491 Thesis: 16 hours, 26 credit points.
- 36.210 Professional Practice: 1 hour, 2 credit points.
- Planning Elective*: 3 hours, 4 credit points.

Total: 20 hours, 32 credit points.

*The following planning electives are offered subject to demand:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>36.301</td>
<td>Third World Planning</td>
<td>3</td>
<td>4</td>
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<tr>
<td>36.302</td>
<td>Urban Conservation</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>36.303</td>
<td>Subdivision Design</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>36.304</td>
<td>Development Planning II</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>36.305</td>
<td>Urban Studies</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>36.306</td>
<td>Statutory Planning II</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>36.307</td>
<td>Metropolitan Planning II</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>36.308</td>
<td>Metropolitan Planning III</td>
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<td>4</td>
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<tr>
<td>36.309</td>
<td>Regional Planning II</td>
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<td>4</td>
</tr>
</tbody>
</table>

A minimum of two electives must be selected. They can be taken during Year 4 Session 2, Year 5 Session 1 and Session 2, depending on availability of staff.

**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. Students should obtain details of scheduling from the Head of the School before enrolling.

For students who commenced the course prior to 1981, some subjects of the previous course program are being continued while others are being replaced by subjects from the revised course. Details will be provided prior to enrolment.
Graduate Study

Faculty of Architecture
Graduate Enrolment Procedures

All students enrolling in graduate courses should obtain a copy of the free booklet *Enrolment Procedures 1981* 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.

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, landscape architecture or town planning. The candidate may also submit any work published, whether or not such work is related to the thesis.

2. No candidate shall be considered for the award of the degree until the lapse of four complete sessions from the date from which the registration becomes effective, save that in the case of a candidate who has obtained the degree of Bachelor with Honours or who has had previous research experience, this period may, with the approval of the Faculty, be reduced by not more than two sessions.

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

4. Every candidate shall submit three copies of the thesis as specified in the University Calendar, and it shall be understood that the University retains three copies of the thesis and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis in whole or in part in photostat or microfilm or other copying medium.

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.
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 the Built Environment (Building Conservation)
4. Master of Architectural Design
5. Graduate Diploma in Housing and Neighbourhood Planning*
6. Graduate Diploma in Landscape Design*

Duration

Each course is programmed over two years of part-time study in the University, involving attendance on two or three evenings per week. In the case of Housing and Neighbourhood Planning a one-year full-time program may be offered subject to demand.

Graduate School of the Built Environment

Head of School
Professor J. M. Freeland

This School was established in July 1978 to:

1. provide opportunities for teaching, investigation, study and research at the post-professional level in those multidisciplinary and interdisciplinary areas concerned with the creating and managing of the built environment;
2. carry out and disseminate the results of research bearing on the quality of the built environment;
3. undertake either alone or in cooperation with other bodies relevant environmental work in the community generally.

While the main work of the School is in the fields of research and higher degree research training at both Masters and Doctoral levels, it also offers some formal course work and short mid-career courses and is in the process of developing others**

Research

The School currently has active research units working under its aegis in the areas of acoustics, architectural history, architectural lighting, earth construction, lightweight structures and solar energy.

Research Degrees

The School makes available to research students a resource facility covering a wide spectrum of relevant disciplines on 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. It does not restrict its intake to graduates in architecture, building, town planning or landscape architecture.

1120
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

   * These courses are under review and intending applicants are advised to contact the School at the first opportunity to obtain further information.
   ** For further information contact the Head of School, Professor J. M. Freeland. Phone 662 2301.
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 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 specialise in acoustics and it is suitable for those who wish to find employment with noise control authorities, or in industry, to practice 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) 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) (at honours level), BArch or BBuild 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. Eight 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. 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 the Graduate School of the Built Environment. 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>
</thead>
<tbody>
<tr>
<td>1.927G</td>
<td>Acoustic Theory</td>
<td>2</td>
<td>Core</td>
<td>S1</td>
</tr>
<tr>
<td>1.937G</td>
<td>Acoustic Measuring Systems and Electroacoustics</td>
<td>2</td>
<td>Core</td>
<td>S1</td>
</tr>
</tbody>
</table>
Course Subjects

<table>
<thead>
<tr>
<th>Code</th>
<th>Subject</th>
<th>Credit Points</th>
<th>Core/ Elective</th>
<th>Usual Session Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.947G</td>
<td>Advanced Physical Acoustics</td>
<td>4</td>
<td>Elective</td>
<td>S3</td>
</tr>
<tr>
<td>1.957G</td>
<td>Acoustic Laboratory and Signal Analysis</td>
<td>3</td>
<td>Elective</td>
<td>S2</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>
</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>
<td>4</td>
<td>Elective</td>
<td>S2</td>
</tr>
<tr>
<td>39.994G</td>
<td>Graduate Project A (prerequisite 10 credit points)</td>
<td>5</td>
<td>Compulsory</td>
<td>S3</td>
</tr>
<tr>
<td>39.996G</td>
<td>Graduate Project B (prerequisite 39.994G)</td>
<td>10</td>
<td>Compulsory</td>
<td>S4</td>
</tr>
<tr>
<td>39.997G</td>
<td>Auditorium Acoustics</td>
<td>3</td>
<td>Elective</td>
<td>S3</td>
</tr>
<tr>
<td>39.998G</td>
<td>Noise Control in Buildings</td>
<td>4</td>
<td>Elective</td>
<td>S2</td>
</tr>
</tbody>
</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 the Graduate School of the Built Environment.

Admission Requirements

The conditions governing registration as a candidate for this course are given later in this handbook. In summary, admission is open to applicants who have completed at least a four-year full-time university course in an appropriate area of an approved discipline.

In certain cases it may be necessary for applicants to complete a program of preparatory subjects set out by the Higher Degree Committee of the Faculty of Architecture, whose decision is influenced by the education and experience of each applicant.

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 fourteen 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 time-tabled on one afternoon and evening, and one other evening, each week. In addition to time-tabled 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>
</tr>
</thead>
<tbody>
<tr>
<td>Contextual Studies</td>
<td>14</td>
<td>1</td>
</tr>
<tr>
<td>Architectural History</td>
<td>42</td>
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</tr>
<tr>
<td>Conservation Management</td>
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<td>3</td>
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<tr>
<td>Analysis and Documentation</td>
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<tr>
<td>Conservation Technology</td>
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<td>Graduate Project</td>
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Typical Pattern of Full-time Study

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hrs</th>
<th>Credits</th>
</tr>
</thead>
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<tr>
<td>39.101G</td>
<td>Contextual Studies</td>
<td>14</td>
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</tr>
<tr>
<td>39.102G</td>
<td>Architectural History</td>
<td>42</td>
<td>3</td>
</tr>
<tr>
<td>39.103G</td>
<td>Conservation Management</td>
<td>56</td>
<td>4</td>
</tr>
<tr>
<td>39.104G</td>
<td>Analysis and Documentation A</td>
<td>28</td>
<td>2</td>
</tr>
<tr>
<td>39.105G</td>
<td>Analysis and Documentation B</td>
<td>70</td>
<td>5</td>
</tr>
<tr>
<td>39.106G</td>
<td>Conservation Technology A</td>
<td>56</td>
<td>4</td>
</tr>
<tr>
<td>39.107G</td>
<td>Conservation Technology B</td>
<td>56</td>
<td>4</td>
</tr>
<tr>
<td>39.108G</td>
<td>Conservation Technology C</td>
<td>56</td>
<td>4</td>
</tr>
<tr>
<td>39.109G</td>
<td>Conservation Technology D</td>
<td>56</td>
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<tr>
<td>39.110G</td>
<td>Graduate Project</td>
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</table>

Upon completion: 8

Total: 252 18

Typical Pattern of Part-time Study

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Hrs</th>
<th>Credits</th>
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</thead>
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<tr>
<td>39.101G</td>
<td>Contextual Studies</td>
<td>14</td>
<td>1</td>
</tr>
<tr>
<td>39.102G</td>
<td>Architectural History</td>
<td>42</td>
<td>3</td>
</tr>
<tr>
<td>39.103G</td>
<td>Conservation Management</td>
<td>56</td>
<td>4</td>
</tr>
<tr>
<td>39.104G</td>
<td>Analysis and Documentation A</td>
<td>28</td>
<td>2</td>
</tr>
<tr>
<td>39.105G</td>
<td>Analysis and Documentation B</td>
<td>70</td>
<td>5</td>
</tr>
<tr>
<td>39.106G</td>
<td>Conservation Technology A</td>
<td>56</td>
<td>4</td>
</tr>
<tr>
<td>39.107G</td>
<td>Conservation Technology B</td>
<td>56</td>
<td>4</td>
</tr>
<tr>
<td>39.108G</td>
<td>Conservation Technology C</td>
<td>56</td>
<td>4</td>
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<tr>
<td>39.109G</td>
<td>Conservation Technology D</td>
<td>56</td>
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</tr>
<tr>
<td>39.110G</td>
<td>Graduate Project</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>

Upon completion: 8

Total: 140 10

School of Architecture

Doctor of Philosophy
Doctor of Philosophy
PhD

This is a research degree requiring an original and significant contribution to knowledge in an approved subject.

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 with Honours of the University of New South Wales or any other approved university followed by at least one year professional practice.

2. Graduates with a pass BArch degree 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 he submits evidence 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 applicant's academic record and the quality and extent of his 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.

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.
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.

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
Mr. G. E. Levido

This four-session part-time course has been designed to provide opportunities for advanced study in the science of construction and building services. It allows a certain amount of specialization in four inter-related 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 aspect 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 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) 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 course comprising 39 credit points. Each credit point consists of class contact of one hour for one semester, except for the Graduate Project 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 Graduate Project 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 Graduate Project of 10 credit points.

*For further information, contact Mr. M. Maroszczak, Continuing Education Co-ordinator in the School of Building.
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 time-tabled on four evenings per week.

<table>
<thead>
<tr>
<th>Management Studies</th>
<th>Credit Points per Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.212G Pre-Construction Management</td>
<td>S1 2 3 4</td>
</tr>
<tr>
<td>35.213G Building Contract Management</td>
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<tr>
<td>35.231G Operations Planning Management</td>
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<tr>
<td>35.254G Personnel Management</td>
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<tr>
<td>35.275G Property Management</td>
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</table>

| Construction and Building Services                      |                            |
| 35.296G Construction Techniques                         | 3                          |
| 35.297G Developments in Building Materials              | 2                          |

| Building Science and Computations                       |                            |
| 35.360G Computer Techniques and Applications I          | 3                          |
| 35.361G Computer Techniques and Applications II         | 2                          |
| 35.355G Computer Graphics                              |                            |
| 35.370G Experimental Techniques                        |                            |
| 35.232G Systems Modelling                              |                            |
| 35.381G Building Physics                               |                            |
| 35.382G Building Psychophysics                         |                            |

| Building Economics                                      |                            |
| 35.330G Cost Planning and Analysis                      | 2                          |
| 35.400G Economics of Services                          |                            |
| 35.460G Applied Building Economics                     |                            |
| 35.470G Analysis and Valuation of Property             |                            |
| 35.480G Managerial Economics in Building               |                            |
| 35.242G Graduate Project (Compulsory)                  | 10 points on completion    |

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

**1170**
**Doctor of Philosophy**

**Doctor of Philosophy**

**PhD**

This is a research degree requiring an original and significant contribution to knowledge in an approved subject.

**2205**
**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.

**5220**
**Industrial Design Graduate Diploma Course**

**Graduate Diploma**

**GradDip**

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

**Part-time**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Hours per week</th>
</tr>
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<tbody>
<tr>
<td>21.510/1G</td>
<td>Industrial Design</td>
</tr>
<tr>
<td>21.511/1G</td>
<td>Design Projects</td>
</tr>
<tr>
<td>21.521/1G</td>
<td>Seminar</td>
</tr>
<tr>
<td>21.531/1G</td>
<td>Creative Art Elective</td>
</tr>
<tr>
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<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>21.501/2G</td>
<td>Industrial Design</td>
</tr>
<tr>
<td>21.511/2G</td>
<td>Design Projects</td>
</tr>
<tr>
<td>21.521/2G</td>
<td>Seminar</td>
</tr>
<tr>
<td>21.531/2G</td>
<td>Creative Art Elective</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</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.

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.

Coursework

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.

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.

†This course is under review, and intending applicants are advised to contact the School at the first opportunity to obtain further information.

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.

5210
Landscape Design Graduate Diploma Course
Graduate Diploma
GradDip

Not offered in 1981.
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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
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</thead>
<tbody>
<tr>
<td>36.930G</td>
<td>Theory of Neighbourhood Planning I</td>
<td>1 S1</td>
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<tr>
<td>36.931G</td>
<td>Theory of Neighbourhood Planning II</td>
<td>1 S2</td>
</tr>
<tr>
<td>36.940G</td>
<td>Practice of Neighbourhood Planning I</td>
<td>3 S1</td>
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<tr>
<td>36.941G</td>
<td>Practice of Neighbourhood Planning II</td>
<td>3 S2</td>
</tr>
<tr>
<td>36.923G</td>
<td>Land and Housing Economics</td>
<td>0 2 S1</td>
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<tr>
<td>36.924G</td>
<td>Urban Sociology</td>
<td>2 0 S2</td>
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<tr>
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<td>6 6 S2</td>
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</table>

Year 2

<table>
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</thead>
<tbody>
<tr>
<td>36.942G</td>
<td>Practice of Neighbourhood Planning II</td>
<td>4 S1</td>
</tr>
<tr>
<td>36.943G</td>
<td>Practice of Neighbourhood Planning IV</td>
<td>4 S2</td>
</tr>
<tr>
<td>36.922G</td>
<td>Communications and Public Utilities</td>
<td>0 2 S1</td>
</tr>
<tr>
<td>36.925G</td>
<td>Housing Law and Administration</td>
<td>2 0 S2</td>
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<tr>
<td></td>
<td></td>
<td>6 6 S2</td>
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</tbody>
</table>
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 Table (Undergraduate Study) in the Calendar.

The following is the list of higher degrees and graduate diplomas of the University, together with the publication in which the conditions for the award appear.

For the list of graduate degrees by research and course work, arranged in faculty order, see Disciplines of the University: Table of Courses (by faculty): Graduate Study in the Calendar.

For the statements Preparations and Submissions of Project Reports and Theses for Higher Degrees and Policy with respect to the Use of Higher Degree Theses see the Calendar.

<table>
<thead>
<tr>
<th>Title</th>
<th>Abbreviation</th>
<th>Calendar/Handbook</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctor of Science</td>
<td>DSc</td>
<td>Calendar</td>
</tr>
<tr>
<td>Doctor of Letters</td>
<td>DLitt</td>
<td>Calendar</td>
</tr>
<tr>
<td>Doctor of Laws</td>
<td>LLD</td>
<td>Calendar</td>
</tr>
<tr>
<td>Doctor of Medicine</td>
<td>MD</td>
<td>Calendar</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>PhD</td>
<td>Calendar</td>
</tr>
<tr>
<td>Master of Applied Science</td>
<td>MAppSc</td>
<td>Applied Science</td>
</tr>
<tr>
<td>Master of Architecture</td>
<td>MArch</td>
<td>Architecture</td>
</tr>
<tr>
<td>Master of Architectural Design</td>
<td>MArchDes</td>
<td>Architecture</td>
</tr>
<tr>
<td>Master of Archives Administration</td>
<td>MArchivAdmin</td>
<td>Professional</td>
</tr>
<tr>
<td>Master of Arts</td>
<td>MA</td>
<td>Arts</td>
</tr>
<tr>
<td>Master of Arts (Hons)</td>
<td>MA(Hons)</td>
<td>Military Studies</td>
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First Degrees

Higher Degrees
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<tr>
<th>Title</th>
<th>Abbreviation</th>
<th>Calendar/Handbook</th>
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<tr>
<td>Master of Biomedical Engineering</td>
<td>MBiomedE</td>
<td>Engineering</td>
</tr>
<tr>
<td>Master of Building</td>
<td>MBuild</td>
<td>Architecture</td>
</tr>
<tr>
<td>Master of the Built Environment</td>
<td>MBEnv</td>
<td>Architecture</td>
</tr>
<tr>
<td>Master of the Built Environment (Building Conservation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Master of Business Administration</td>
<td>MBA</td>
<td>AGSM</td>
</tr>
<tr>
<td>Master of Chemistry</td>
<td>MChem</td>
<td>Sciences*</td>
</tr>
<tr>
<td>Master of Commerce (Honours)</td>
<td>MCom(Hons)</td>
<td>Commerce</td>
</tr>
<tr>
<td>Master of Commerce</td>
<td>MCom</td>
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</tr>
<tr>
<td>Master of Education</td>
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</tr>
<tr>
<td>Master of Educational Administration</td>
<td>MEdAdmin</td>
<td>Professional Studies</td>
</tr>
<tr>
<td>Master of Engineering</td>
<td>ME</td>
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</tr>
<tr>
<td>Master of Engineering (Building Conservation)</td>
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<tr>
<td>Master of Engineering Science</td>
<td>MEngSc</td>
<td>Engineering</td>
</tr>
<tr>
<td>Master of General Studies</td>
<td>MGenStud</td>
<td>Military Studies</td>
</tr>
<tr>
<td>Master of Health Administration</td>
<td>MHA</td>
<td>General Studies</td>
</tr>
<tr>
<td>Master of Health Personnel Education</td>
<td>MHPEd</td>
<td>Calendar†</td>
</tr>
<tr>
<td>Master of Health Planning</td>
<td>MHP</td>
<td>Professional Studies</td>
</tr>
<tr>
<td>Master of Landscape Architecture</td>
<td>MLArch</td>
<td>Architecture</td>
</tr>
<tr>
<td>Master of Laws by Research</td>
<td>LLM</td>
<td>Law</td>
</tr>
<tr>
<td>Master of Librananship</td>
<td>MLib</td>
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</tr>
<tr>
<td>Master of Mathematics</td>
<td>MMath</td>
<td>Sciences*</td>
</tr>
<tr>
<td>Master of Optometry</td>
<td>MOptom</td>
<td>Sciences*</td>
</tr>
<tr>
<td>Master of Paediatrics</td>
<td>MPaed</td>
<td>Medicine</td>
</tr>
<tr>
<td>Master of Physics</td>
<td>MPhysics</td>
<td>Sciences*</td>
</tr>
<tr>
<td>Master of Psychology</td>
<td>MPsychol</td>
<td>Sciences‡</td>
</tr>
<tr>
<td>Master of Public Administration</td>
<td>MPA</td>
<td>AGSM</td>
</tr>
<tr>
<td>Master of Science</td>
<td>MSc</td>
<td>Applied Science</td>
</tr>
<tr>
<td>Master of Science (without supervision)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Master of Science (Acoustics)</td>
<td>MSc(Acoustics)</td>
<td>Architecture</td>
</tr>
<tr>
<td>Master of Science and Society</td>
<td>MScSoc</td>
<td>Sciences*</td>
</tr>
<tr>
<td>Master of Science (Biotechnology)</td>
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Graduate Study: Conditions for the Award of Higher Degrees

Title | Abbreviation | Calendar/Handbook
--- | --- | ---
Graduate Diploma | GradDip | Applied Science
| | Architecture | Engineering
| | Sciences | DipFDA
| | DipArchivAdmin | Sciences*
| | DipEd | Professional Studies
| | DipLib

*Faculty of Science
†Professorial Board
‡Faculty of Biological Sciences

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

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

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

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

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

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

3. When the committee is not satisfied with the qualifications submitted by a candidate, the committee may require the candidate, before being permitted to register, to undergo such examination or carry out such work as the committee may prescribe.

4. A candidate for registration for a course of study leading to the degree of Doctor of Philosophy shall apply to the Registrar on the prescribed form at least one calendar month before the commencement of the session in which registration is to begin.

5. Subsequent to registration the candidate shall pursue a program of advanced study and research for at least six academic sessions, save that:

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

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

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

6. A candidate who is fully engaged in research for the degree shall present for examination not later than ten academic sessions from the date of registration. A candidate not fully engaged in research shall present for examination not later than twelve academic sessions from the date of registration. In special cases an extension of these times may be granted by the committee.
7. The candidate shall be fully engaged in advanced study and research, save that:

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

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

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

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

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

10. A candidate may be required by the committee to attend a formal course of appropriate study.

Thesis

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

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

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

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

(4) it must reach a satisfactory standard of expression and presentation.

12. The thesis must present the candidate’s own account of the research. In special cases work done conjointly with other persons may be accepted, provided the committee is satisfied on the candidate’s part in the joint research.

13. Every candidate shall be required to submit with the thesis a short abstract of the thesis comprising not more than 600 words. The abstract shall indicate:

(1) the problem investigated;

(2) the procedures followed;

(3) the general results obtained;

(4) the major conclusions reached;

but shall not contain any illustrative matter, such as tables, graphs or charts.

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

* Or department where a department is not within a school
15. The candidate shall give in writing two months' notice of intention to submit the thesis.

16. Four copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses. The candidate may also submit any work previously published whether or not such work is related to the thesis.

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

18. There shall normally be three examiners of the thesis, appointed by the Professorial Board on the recommendation of the committee, at least two of whom shall be external to the University.

19. 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:

1. The candidate be awarded the degree without further examination, or
2. 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
3. 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
4. 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
5. the candidate be not awarded the degree and be not permitted to resubmit the thesis.

20. If the performance at the further examination recommended under Rule 19.(3) 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 them but not exceeding eighteen months.

21. 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 admitted to the degree.

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

Entry for Examination

1. The degree of Master of Architecture 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 ability to undertake research by the submission of a thesis embodying the results of an original investigation or design.

*Or department where a department is not within a School.
Qualifications 2. (1) An applicant for registration shall have been admitted to the degree of Bachelor of Architecture in the University of New South Wales, or other approved university.

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

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

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

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

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

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

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

(c) student working externally to the University

(4) 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 Committee which shall include the preparation and submission of a thesis embodying the results of an original investigation or design relative to Architecture. The work shall be carried out under the direction of a supervisor appointed by the Committee or under such conditions as the Committee may determine.

(5) No candidate shall be considered for the award of the degree until the lapse of four complete sessions from the date from which registration becomes effective, save that in the case of a candidate who obtains the degree of Bachelor with Honours, or who has had previous research experience this period may, with the approval of the Committee be reduced by up to two sessions.

Thesis 4. (1) A candidate for the degree shall be required to submit three copies of the thesis referred to in paragraph 3.(4) above which shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses. The candidate may submit also for examination any work he has published, whether or not such work is related to the thesis.

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

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

Recommendation for Admission to Degree 5. Having considered the examiners’ reports the Committee shall recommend whether or not the candidate should be admitted to the degree.

Fees 6. An approved candidate shall pay such fees as may be determined from time to time by the Council.
1. The degree of Master of Architectural Design by formal course work 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 satisfactorily completed an approved program of advanced study.

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

(a) have been admitted to the Bachelor of Architecture degree with honours in the University of New South Wales, or other approved university; and,

(b) have spent at least one year in professional practice subsequent to completion of the Bachelor's degree.

(2) An applicant for registration with a Bachelor of Architecture pass degree may be admitted only on the recommendation of the Head of School and with the confirmation of the Committee.

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

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

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

(2) A candidate for the degree shall be required to undertake such course of formal study, pass such examinations as may be prescribed, and undertake specified projects, the satisfactory completion of which shall be regarded as part of the examinations.

(3) No candidate shall be considered for the award of the degree until the lapse of two sessions in the case of a full-time candidate or three sessions in the case of a part-time candidate from the date of registration.

(4) The progress of a candidate shall be reviewed annually by the Committee on the recommendation of the Head of the School and as a result of its review the Committee may cancel registration or take such other action as it considers appropriate.

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

5. An approved candidate shall pay such fees as may be determined from time to time by the Council.
Qualifications 2. (1) An applicant for registration for the degree shall have been admitted to the degree of Bachelor in the University of New South Wales, or other approved university, in an appropriate school.

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

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

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

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

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

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

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

(c) student working externally to the University.

(4) 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 Committee which shall include the preparation and submission of a thesis embodying the results of an original investigation or design relative to building. The work shall be carried out under the direction of a supervisor appointed by the Committee or under such conditions as the Committee may determine.

(5) No candidate shall be considered for the award of the degree until the lapse of four complete sessions from the date from which registration becomes effective, save that in the case of a candidate who obtains the degree of Bachelor with Honours, or who has had previous research experience, this period may, with the approval of the Committee be reduced by up to two sessions.

Thesis 4. (1) A candidate for the degree shall be required to submit three copies of the thesis referred to in paragraph 3.(4) which shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses. The candidate may submit also for examination any work he has published, whether or not such work is related to the thesis.

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

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

Recommendation for Admission to Degree 5. Having considered the examiners’ report the Committee shall recommend whether or not the candidate should be admitted to the degree.

Fees 6. An approved candidate shall pay such fees as may be determined from time to time by the Council.
1. The degree of Master of the Built Environment 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 ability to undertake research by the submission of a thesis embodying the results of an original investigation or design.

2. (1) An applicant for registration for the degree shall have been admitted to a minimum four year degree of Bachelor in the University of New South Wales, or other approved University, after a course of study of not less than four full-time years.

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

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

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

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

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

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

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

(c) student working externally to the University.

4. (1) A candidate for the degree shall be required to submit three copies of the thesis referred to in paragraph 3. (4) above which shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses. The candidate may submit also for examination any published work whether or not such work is related to the thesis.

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

(3) It shall be understood that the University retains 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. Having considered the examiners' reports the Committee shall recommend whether or not the candidate should be admitted to the degree.

6. An approved candidate shall pay such fees as may be determined from time to time by the Council.
Master of the Built Environment (Building Conservation) (MBEnv)

1. The degree of Master of the Built Environment (Building Conservation) by formal course work 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 satisfactorily completed an approved program of advanced study.

Qualifications

2. (1) An applicant for registration for the degree shall normally be a graduate from an appropriate four-year, full-time undergraduate course in the University of New South Wales, or other approved university or tertiary institute.

(2) 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 Committee.

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

Registration

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

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

(3) No candidate shall be considered for the award of the degree until the lapse of two sessions in the case of a full-time candidate or four sessions in the case of a part-time candidate.

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

Project

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

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

(3) (a) The report shall be examined by two examiners appointed by the Professorial Board on the recommendation of the Committee.

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

Recommendation for Admission to Degree

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

Fees

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

Master of Landscape Architecture (MLArch)

1. The degree of Master of Landscape Architecture 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 ability to undertake research by the submission of a thesis embodying the results of an original investigation or design.
2. (1) An applicant for registration for the degree shall have been admitted to the degree of Bachelor in the University of New South Wales, or other approved university, in an appropriate field.

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

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

3. (1) An applicant to register for the degree shall apply on the prescribed form which shall be lodged with the Registrar at least one full calendar month before the commencement of the session in which the candidate desires to register.

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

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

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

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

(c) student working externally to the University.

(4) 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 Committee which shall include the preparation and submission of a thesis embodying the results of an original investigation or design relative to Landscape Architecture. The work shall be carried out under the direction of a supervisor appointed by the Committee or under such conditions as the Committee may determine.

(5) No candidate shall be considered for the award of the degree until the lapse of four complete sessions from the date from which registration becomes effective, save that in the case of a candidate who obtains the degree of Bachelor with Honours or who has had previous research experience, this period may, with the approval of the Committee be reduced by up to two sessions.

4. (1) A candidate for the degree shall be required to submit three copies of the thesis referred to in paragraph 3.(4) which shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses. The candidate may submit also for examination any work he has published, whether or not such work is related to the thesis.

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

(3) It shall be understood that the University retains 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. Having considered the examiners’ reports the Committee shall recommend whether or not the candidate should be admitted to the degree.

6. An approved candidate shall pay such fees as may be determined from time to time by the Council.
Master of Science (MSc)

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

Qualifications

2. (1) An applicant for registration for the degree shall have been admitted to the degree of Bachelor in the University of New South Wales, or other approved University in an appropriate School or Department.

   (2) In exceptional cases a person may be permitted to register as a candidate for the degree if he submits evidence of such academic and professional attainments as may be approved by the Professorial Board on the recommendation of the appropriate Committee.

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

Registration

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

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

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

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

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

      (c) student working externally to the University

   (4) Every candidate for the degree shall be required to submit three copies of a thesis embodying the results of an original investigation or design, to take such examinations and to perform such other work as may be prescribed by the Committee. This work shall be carried out under the direction of a supervisor appointed by the Committee or under such conditions as the Committee may determine.

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

   (6) Unless otherwise recommended by the Committee, no candidate shall be awarded the degree until the lapse of four complete sessions from the date of registration, save that the case of candidate who obtained the degree of Bachelor with Honours or who has had previous research experience, this period may be reduced by up to two sessions with approval of the Committee. A candidate who is fully engaged in research for the degree shall present for examination not later than six academic sessions from the date of registration. A candidate not fully engaged in research shall present for examination not later than twelve academic sessions from the date of registration. In special cases an extension of these times may be granted by the Committee.

Thesis

4. (1) A candidate for the degree shall be required to submit three copies of the thesis referred to in paragraph 3.(4) which shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses. The candidate may submit also for examination any work he has published whether or not such work is related to the thesis.

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

   (3) It shall be understood that the University retains the three copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968 the University may issue the thesis in whole or in part in photostat or microfilm or other copying medium.
5. Having considered the examiners' reports the Committee shall recommend whether or not the candidate should be admitted to the degree.

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

1. The degree of Master of Science (Acoustics) by formal course work 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 satisfactorily completed an approved program of advanced study.

2. (1) An applicant for registration for the degree shall have been admitted to an appropriate degree (not less than four years duration) of the University of New South Wales or an equivalent degree of another approved university or tertiary institution.
   
   (2) 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 Committee.
   
   (3) Notwithstanding any other provisions of these conditions the Committee may require an applicant to demonstrate fitness for registration by carrying out such work and sitting for such examinations as the Committee may determine.

3. (1) An application to register as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least two months before the commencement of the course.
   
   (2) A candidate for the degree shall be required to undertake such course of formal study, pass such examinations and submit a report on a project as prescribed by the Committee.
   
   (3) No candidate shall be considered for the award of the degree until the lapse of two sessions in the case of a full-time candidate or four sessions in the case of a part-time candidate.
   
   (4) The progress of a candidate shall be reviewed annually by the Committee on the recommendation of the Head of School in which the candidate is registered and as a result of such review the Committee may terminate the candidature.

4. (1) A report on a project approved by the Committee may be submitted at the completion of the formal section of the course, but in any case shall be submitted not later than one year after the completion of the course.
   
   (2) The format of the report shall accord with the instructions of the Head of the School and shall comply with the requirements of the Committee for the submission of project reports.
   
   (3) (a) The report shall be examined by two examiners appointed by the Professorial Board on the recommendation of the Committee.
   
   (b) A candidate may be required to attend for an oral or written examination.

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

6. An approved candidate shall pay such fees as may be determined from time to time by the Council.
Master of Science (Building) (IMSc(Building))

1. The degree of Master of Science (Building) by formal course work 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 satisfactorily completed an approved program of advanced study.

Qualifications

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

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

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

Registration

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

(2) A candidate for the degree, shall be required to undertake such course of formal study, pass such examinations and, where specified, submit a report on a project, as prescribed by the Committee.

(3) No candidate shall be considered for the award of the degree until the lapse of four sessions from the date from which registration becomes effective.

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

Project

4. (1) A report on Graduate project approved by the Committee shall be submitted at the completion of the formal section of the course, not later than one year after the completion of the course.

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

(3) (a) The report shall be examined by two examiners appointed by the Professorial Board on the recommendation of the Committee.

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

Recommendation for Admission to Degree

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

Fees

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

Master of Town Planning (MTP)

1. The degree of Master of Town Planning 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 ability to undertake research by the submission of a thesis embodying the results of an original investigation or design.
2. (1) An applicant for registration shall have been admitted to the Degree of Bachelor of Town Planning in the University of New South Wales, or to a Bachelor’s degree in Town or Regional Planning of an approved university.

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

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

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

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

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

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

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

(c) student working externally to the University.

(4) 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 Committee which shall include the preparation and submission of a thesis embodying the results of an original investigation or design relative to Town or Regional Planning. The work shall be carried out under the direction of a supervisor appointed by the Committee of under such conditions as the Committee may determine.

(5) No candidate shall be considered for the award of the degree until the lapse of four complete sessions from the date from which registration becomes effective, save that in the case of a candidate who obtains the degree of Bachelor with Honours or who has had previous research experience, this period may, with the approval of the Committee be reduced by up to two sessions.

4. (1) A candidate for the degree shall be required to submit three copies of the thesis referred to in paragraph 3.(4) which shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses. The candidate may submit also for examination any work he has published, whether or not such work is related to the thesis.

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

(3) It shall be understood that the University retains 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. Having considered the examiners’ reports the Committee shall recommend whether or not the candidate should be admitted to the degree.

6. An approved candidate shall pay such fees as may be determined from time to time by the Council.
Graduate Diploma (GradDip) 1. An application for admission to a graduate diploma course shall be made on the prescribed form which should be lodged with the Registrar at least two full calendar months before the commencement of the course.

2. An applicant for admission to a graduate diploma course shall be:
   (1) a graduate of the University of New South Wales or other approved university,
   (2) a person with other qualifications as may be approved by Faculty.

3. Notwithstanding clause 2. above, Faculty may require an applicant to take such other prerequisite or concurrent studies and/or examinations as it may prescribe.

4. Every candidate for a graduate diploma shall be required to undertake the appropriate course of study, to pass any prescribed examinations, and if so laid down in the course, to complete a project or assignment specified by the Head of the School. The format of the report on such project or assignment shall accord with the instructions laid down by the Head of the School.

5. An approved applicant shall be required to pay the fee for the course in which he desires to register. Fees shall be paid in advance.
Subject Descriptions

Identification of Subjects by 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 not been used for some time 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 of 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, and are listed at the end of Undergraduate Study or Graduate Study of the relevant School. Their subject descriptions are 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.

Information Key

The following is the key to the information supplied about each subject listed below: S1 (Session 1); S2 (Session 2); F (Full year i.e Session 1 plus Session 2); S1 or S2 (Session 1 or Session 2, i.e choice of either session); SS (Single Session, i.e which session taught not known at time of publication); L (Lecture, followed by hours per week); T (Laboratory/Tutorial, followed by hours per week).

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.
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School of Physics

Undergraduate Study

1.001 Physics I  F L3T3
Prerequisites:
HSC Exam Percentile
Range Required
2 unit Mathematics
or
3 unit Mathematics  
and
2 unit Science (incl. Physics and/or Chem.)  
or
4 unit Mathematics
31-100
1-100
31-100
Co-requisites: 10.021 C or 10.021 B or 10.001 or 10.011.
A molecular approach to energy transfer, kinetic theory, gas laws and calorimetry. The wave theories of physics, transfer of energy by waves, properties of waves. Application of wave theories to optical and acoustical phenomena such as interference, diffraction and polarization. Interaction of radiation with matter, photoelectric effect, Compton effect, spectroscopy. Resolution of the wave-particle paradox by means of wave mechanics and the uncertainty principle.

1.011 Higher Physics I  F L3T3
Prerequisites: As for 1.001. Co-requisite: 10.001 or 10.011.
For students of all Faculties except Medicine who have a good secondary school record and who wish to do a more challenging course. Entry to this course requires permission from the Head of the School of Physics.
Vector algebra, kinematics, uniform circular motion, curvilinear acceleration, dynamics of particles, motion in a resistive medium, work and energy, gravitation, rotational motion of rigid bodies about fixed axis, rotational motion about a fixed point, Lagrange and Hamilton equations, harmonic motions, waves in elastic media, sound waves, physical optics, polarization and double refraction.
Electric charge, electric intensity, electric flux, Gauss' law, electric potential, capacity, dielectric materials, electric current and resistance, DC circuits, magnetic field, field due to a current, electromagnetic induction, inductance, magnetic materials, transients, AC circuits, electronics, diode, rectifier circuit, simple power supplies, electronic amplifier systems, single loop feedback systems, signal processing circuits using operational amplifiers.

1.021 Introductory Physics  
(For Health and Life Scientists)  F L3T3
Co-requisites: 10.021A and 10.021B or 10.021B, or 10.021 or 10.011.
An introductory subject in physics designed principally for students majoring in the life and health science disciplines. Discusses the following topics at an introductory level:
The methods of physics, describing motion, the dynamics of a particle, conservation of energy, kinetic theory of gases, properties of liquids, vibrations and waves, electricity and conduction in solids, ions and ionic conduction, magnetism and electromagnetic induction, alternating current, atomic nature of matter, X-rays, the nucleus and radioactivity, electronics, and other geometrical optics, optical instruments, wave optics, microscopes and their uses or advanced electronics (Optometry students).

1.931 Physics I (Building)  
4 credit points; compulsory. Prerequisites: nil.

Graduate Study
Not all graduate course subjects are necessarily offered in any one year.

1.927G Acoustic Theory  S1 L1½T½
2 credit points. Prerequisites: nil.
Free field propagation in fluids; interference and diffraction; absorption; boundary effects; reflection and transmission at fluid/fluid and fluid/solid interfaces; fluid wave guides; solid wave guides; room acoustics; ultrasonic transducers and measurement methods; Fourier analysis; statistical methods; impulse measurement.
1.937G Acoustic Measuring Systems and Electroacoustics

2 credit points. Prerequisites: nil.

Transducers; microphones; amplifiers; loudspeakers; filters; recorders; pick-ups; noise generators; acoustic measuring instruments; sound reinforcement systems; ambisonics; assisted resonance; special requirements for translation; language laboratories.

1.947G Advanced Physical Acoustics

Prerequisites: nil.

Elasticity; waves in an infinite solid; waves in crystals; acoustic wave guides; ultrasonic transducers and measurements; defects in solids; acoustic emission; ultrasonic imaging methods; absorption in fluids; theory of acoustic absorbers; acoustic impedance; practical absorbers.

1.957G Acoustic Laboratory and Signal Analysis

Prerequisites: nil.

Theory and practice of digital methods of analysis in the time and frequency domain. Practical experiments illustrating basic methods and concepts in acoustics.

Stoichiometry and solution stoichiometry. Structure of matter, solids, liquids, gases. Thermochemistry. Equilibria and equilibrium constants, entropy changes, free energy changes, the relationship between equilibrium and standard free energy changes. Ideal solutions, colligative properties. Equilibrium in electrolyte solutions, acid-base equilibria, solubility equilibria and redox equilibria. The rate of a chemical change and chemical kinetics.

2.131 Chemistry IB

Prerequisites: 2.111 Introductory Chemistry or 2.121 Chemistry IA.


School of Metallurgy

Undergraduate Study

4.911 Materials Science

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

4.951 Materials Technology

School of Mechanical and Industrial Engineering

Undergraduate Study

5.010 Engineering A

Prerequisites:

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Either
2 unit Science (Physics)
or
4 unit Science (multistrand)
or
2 unit Industrial Arts
or
3 unit Industrial Arts

SS L4T2

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


Introduction to Engineering Design: Engineering method, problem identification, creative thinking, mathematical modelling. Computer aided design, materials and processes, communication of ideas, the place of engineering in society.

Introduction to Materials Science: The structure and properties of the main types of engineering materials, with emphasis on the way in which properties may be controlled by controlling structure.

5.030 Engineering C

SS L/T6


And one of the following options (determined by the course of study):

1. (Mechanical, Industrial and Aeronautical Engineering and Naval Architecture students must take this option) Design for Manufacture I: Approximately 30 hours of workshop training, including casting, fitting, machining, welding. Principles of design for manufacture.

2. Production Technology: Description and appraisal of the processes classified as: forming from liquid or solid, material removal, material joining. Machines. Analysis of the primary functions of the machine tools and an appraisal of their limitations. Principles of operation of common machine tools and illustrations of their use.

3. Introduction to systems and Computers: Introduction to computers to follow the computer work in Mathematics I. To develop: A familiarity with algorithms; B the use of procedure-oriented language; and C an introduction to computing equipment.

Systems: To give students an appreciation of some of the concepts used in engineering, to relate the concepts to phenomena within their experience, and to illustrate them by case histories and engineering examples. Quantities. Concepts. Components. Systems.

4. (Chemical Engineering students must take this option) Introduction to Chemical Engineering: Routes to and end uses of industrial chemicals. Likely new industrial chemicals. A survey of several Australian chemical industries from the point of view of their historical and economic importance. Examination of the unit operations involved in the industry and the raw materials, equipment and services used. Environmental aspects of the chemical industry.

5. (Metallurgy students must take this option) Introduction to Metallurgical Engineering: History and significance of the exploitation of metals. Ores, mineral economics, mineral processing, and metal extraction and processing methods illustrated by reference to the Australian mineral and metal industries. Properties, uses and applications of metallic materials. The role of the metallurgist in industry and in processing and materials research, and in relation to conservation and the environment.

6. (Mining Engineering students must take this option) Introduction to Mining Engineering: Mineral deposits: metallic, non-metallic and fuels. Elements of prospecting and exploration. Basic mining techniques. Mining phases; development, exploitation, beneficiation and withdrawal. Mining and the environment. Mining services. Relevance of basic science and engineering subjects to mining design and operations.

7. (Electrical Engineering students must take this option) Introduction to Computing: Introduction to computer program design with emphasis on the design of correct, reliable programs. The subject is organized on a tutorial basis and a number of simple fundamental programming tasks are illustrated. Programs are written in a high-level language which provides facilities for the specification of algorithms and data structure.


9. (Ceramic Engineering students must take this option) Introduction to Ceramic Engineering: The classification of materials. The nature of ceramics. The materials science approach. The scope of the ceramic industry. The origin, classification, physical properties and use of clay minerals and other non-clay raw materials. Principal and operations used in the ceramic industry. Drying and firing of ceramics, melt forming, pot forming and other forming procedures.
School of Architecture

Undergraduate Study

Architectural Design — General

11.4101 Principles of Design
4 credit points. Prerequisites: 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-fulfillment, 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 I
5 credit points. 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 II
5 credit points. 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, evaluation, 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.

11.4120 Design Theory III
4 credit points. 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
4 credit points. 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.

11.4122 Theory of Architecture I
4 credit points. Prerequisite: 11.4103.

Theory of architectural synthesis: the sources of synthesis, the centre and field; the central 'idea' as the cause of the order of priorities and connections between the elements of the synthesis. Discussion on the 'name-form, -idea, -shape' sequence. The concepts of prototypes, synergy, conflict-balance, limitation and economy in architectural synthesis. Introduction to ethics and aesthetics. Practical seminars and projects focus on selected case studies and specific themes.

11.4123 Theory of Architecture II
4 credit points. Prerequisite: 11.4122.

The relationship between the cosmic order and architecture. The order of space and time. Introduction to traditional symbolism and sacred architecture. The meaning of numbers, geometry, direction, enclosure, relation and proportion. Sacred architecture examined in detail in the Christian, Hindu, Buddhist and Islamic tradition. Practical seminars and projects focus on selected case studies and specific themes.

11.4124 Geometry and Design
4 credit points. 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 I
4 credit points. Prerequisites: nil.

11.4126  Interior Design II
4 credit points. Prerequisite: 11.4125.

11.4127  Design for Conservation
4 credit points. Prerequisite: 11.4328.
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  Computed Design Projects
6 credit points. Prerequisites: 11.4602, 11.4103.
The development of computable variables applicable to the physical requirements of building projects. The writing of programs and the application, in a comprehensive sense, of the program results to specific building design.

11.4129  Research and Survey Methods
4 credit points. 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
4 credit points. 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
3 credit points. Prerequisites: 11.4102, 11.4201.
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.

Architectural Design — Specific

11.4201  Living Unit
4 credit points. Prerequisites: 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 I
6 credit points. Prerequisites: 11.4401, 11.4303, 11.4102, 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 I
6 credit points. Prerequisites: 11.4401, 11.4303, 11.4102, 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 operations. 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 I
6 credit points. Prerequisites: 11.4401, 11.4303, 11.4102, 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 I
6 credit points. Prerequisites: 11.4401, 11.4303, 11.4102, 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, pre-school kindergartens, infant and primary schools, open and special schools.

11.4221 Detached Houses
6 credit points. Prerequisites: 11.4102, 11.4303, 11.4401, 11.4403, and 11.4404.

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
6 credit points. Prerequisites: 11.4102, 11.4303, 11.4401, 11.4403, and 11.4404.

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.

11.4223 Housing in Tropical, Sub-tropical and Arid Zones
6 credit points. Prerequisites: 11.4102, 11.4303, 11.4401, 11.4403, and 11.4404.

Historical development of housing in tropical, sub-tropical and arid-zone conditions; 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.

11.4230 Community Facilities II
12 credit points. Prerequisites: 11.4103, 11.4408, one from Group A and one from Group B.

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 II
6 credit points. Prerequisites: 11.4103, 11.4408, one from Group A and one from Group B.

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
6 credit points. Prerequisites: 11.4103, 11.4408, one from Group A and one from Group B.

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 II
6 credit points. Prerequisites: 11.4103, 11.4408, one from Group A and one from Group B.

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 I
6 credit points. Prerequisites: 11.4103, 11.4408, one from Group A and one from Group B.

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 II
12 credit points. Prerequisites: 11.4103, 11.4405, 11.4407, one from Group A and one from Group B.

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
6 credit points. Prerequisites: 11.4103, 11.4405, 11.4407, one from Group A and one from Group B.

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

6 credit points. Prerequisites: 11.4103, 11.4405, 11.4407, one from Group A and one from Group B.

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

6 credit points. Prerequisites: 11.4103, 11.4405, 11.4407, one from Group A and one from Group B.

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.

11.4250 Community Facilities III

16 credit points. Prerequisites: 11.4406, 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 II

8 credit points. Prerequisites: 11.4406, 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 II

8 credit points. Prerequisites: 11.4406, one from Group C and one from Group D.

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. Highly organized and complex building programs.

11.4253 Cultural Facilities II

8 credit points. Prerequisites: 11.4406, 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 concerns 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

8 credit points. Prerequisites: 11.4406, one from Group C and one from Group D, 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

8 credit points. Prerequisites: 11.4406, 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

8 credit points. Prerequisites: 11.4406, one from Group C and one from Group D, 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 multi-mode interchanges in central urban areas (bus/rail/ferry, air/bus/rail, etc).

11.4257 Ecclesiastical Architecture

8 credit points. Prerequisites: 11.4406, 11.4123, one from Group C and one from Group D, 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
Architecture

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 Context of Architecture
5 credit points. Prerequisites: nil.
Introduction to spiritual, mental, physical, social and cultural needs of man; subjective understanding as a basis for rationalized design. The Earth and man's influence upon it. Man's needs individually and in groups. Resources of energy and materials and their utilization. Context of architecture and the built environment professions. Seminars and projects.

11.4303 Introduction to Architectural Science
4 credit points. Prerequisites: 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 appraisal and measurement. Laboratory work and projects.

11.4304 Thermal Design of Buildings
3 credit points. Prerequisite: 11.4303
Thermal comfort, comfort indices; steady 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
3 credit points. 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
3 credit points. 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 World Architecture
3 credit points. Prerequisites: nil.
General treatment of the history of architecture from earliest times to the present; architecture as the built environment and the relationship of man and nature; influences of religion, society, culture, climate and technology. Seminars and projects.

11.4308 Western Architecture
3 credit points. 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
3 credit points. Prerequisite: 11.4308.
History of Australian architecture; historical, human and environmental context of Australian architecture, particularly from the foundation of the colony to World War I, and generally to the present. Seminars, visits and projects.

11.4320 Geometry
3 credit points. Prerequisites: nil.
Plane curves; conics and surfaces of revolution; quadric surfaces; ruled and warped surfaces; convex bodies; spherical trigonometry; projective configurations. Tutorials and project.

11.4321 Physics
4 credit points. Prerequisites: 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, Huygens 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
2 credit points. Prerequisites: 11.4304, 11.4407

11.4323 Room Acoustics
2 credit points. Prerequisite: 11.4306.
1. Subjective and objective criteria for design: speech, music. 2. Sound reflectors and absorbers. 3. Sound reinforcement system. 4. Design
Subject Descriptions

11.4324 Lighting Design

2 credit points. Prerequisite: 11.4305.

1. Major factors influencing design; current research in vision and visual conditions. 2. Lamps and lighting equipment. 3. Methodology in interior and exterior lighting design. 4. Colour and photometry. 5. Case studies.

11.4325 Tropical Architecture

2 credit points. 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 Research

4 credit points. Prerequisite: 11.4306.

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

4 credit points. Prerequisite: 11.4324.

Experimental investigation and research in an elected aspect of lighting design. Seminars: discussion of methodology of results, development of techniques of application. Laboratory work.

11.4328 Appropriate Technology

2 credit points. Prerequisites: 11.4301, 11.4303.


11.4330 Modern Architecture

2 credit points. Prerequisite: 11.4308.


11.4331 The Australian House since 1900

2 credit points. 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

3 credit points. Prerequisites: 11.4309 and 145 credit points.

11.4333 Historical Research B

3 credit points. Prerequisites: 11.4309 and 145 credit points.

11.4334 Historical Research C

3 credit points. Prerequisites: 11.4309 and 145 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 11.4702 Thesis.

11.4335 Eastern Architecture

2 credit points. 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 Structures

3 credit points. 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

5 credit points. Prerequisites: 11.4309, 11.4404.

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.
Architecture

11.4340 Cognition and Behaviour A
3 credit points. 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
3 credit points. 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
4 credit points. Prerequisite: 36.411.

11.4343 Urban Planning
4 credit points. Prerequisite: 36.411.

11.4344 Landscape Planning
4 credit points. 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.

11.4345 Urbanism
2 credit points. Prerequisite: 11.4309.
The development of urban form and the role of architecture in urban design; civic architecture; growth and change; planning and design methodology. Case studies.

Technology

11.4401 Principles of Construction
6 credit points. Prerequisites: 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
4 credit points. Prerequisites: nil.
Introduction to structures. History and morphology, loads and structural requirements, structural elements and systems, basic structural form, basic states of stress. Introduction to materials science; the relationship between the properties and structure of materials. The properties and uses of common building materials: metals, ceramics and polymers. Tutorials and laboratory work.

11.4403 Principles of Structures
4 credit points. Prerequisites: 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 Structures and Construction A
5 credit points. Prerequisites: 11.4401, 11.4402, 11.4403.

11.4405 Structures and Construction B
5 credit points. Prerequisites: 11.4401, 11.4402, 11.4403.
Reinforced concrete and other composites: an exposition and analysis of the function and behaviour of reinforced concrete and other composites, when used for structural and non-structural elements. Technological aspects and applications of these materials in buildings—integration of structure, cladding with associated services requirements. Special applications; structural theory and sizing of structural and non-structural elements. Basement construction. Methods of waterproofing. Seminars, laboratory work and projects.

11.4406 Systems in Building
4 credit points. Prerequisites: 11.4407, 11.4408.
The study of rationalization of the building process, considering methods of construction, structure and services in relation to technological developments, costs and benefits. Industrialized systems building. History, development and methods; the manufacturing industry, systems design. Case studies.
11.4407  Services A  
3 credit points. Prerequisites: 11.4404, 11.4303. 
Sources and supply of air, water and energy for use in buildings including treatment, distribution, materials and regulations; solar, electrical and heat energy; building and personal hygiene; heating, cooling, lighting; food preparation. Projects and seminars.

11.4408  Services B  
3 credit points. Prerequisites: 11.4404, 11.4405, 11.4304. 
Electrical and mechanical plant and disposal of wastes. Central thermal systems; movement of people and goods; disposal of wastes; safety and security; precautions, alarms, communications. Projects and seminars.

11.4420  Technology of Low-rise Buildings  
5 credit points. Prerequisite: 11.4404. 
Structural, constructional and services systems for low-rise buildings. A detailed study of inter-relationships both within and between the various systems, together with an overview of the influence of technology-based decisions on the other aspects of architectural design. The design of these technological systems for an existing low-rise building. Project.

11.4421  Technology of High-rise Buildings  
5 credit points. Prerequisite: 11.4406. 
Structural, constructional and services systems for high-rise buildings. A detailed study of inter-relationships both within and between the various systems, together with an overview of the influence of technology-based decisions on the other aspects of architectural design. The design of these technological systems for an existing high-rise building. Project.

11.4422  Technology of Low-cost Housing  
5 credit points. Prerequisite: 11.4406. 
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  
5 credit points. Prerequisite: 11.4406. 
Systems building—philosophy and economics, systems theory craft, prefabrication and industrialization as Methods Dimensional Coordination. The inter-relationships of structure, services and finishes and the influences of technology-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  
3 credit points. Prerequisites: 11.4405, 11.4407, 11.4408. 
Pre-planning considerations and building technology design for improved performance and management in the building construction process. Constructural 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  
3 credit points. Prerequisites: 11.4402, 11.4303. 
Soil selection, suitability and analysis. Adobe, pisé and stabilized earth. Performance, strength, durability, erosion, thermal stabilizers, reinforcement, internal and external finishes. Constructional and structural characteristics and design requirements. Environmental and social implications. 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  
3 credit points. 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  
4 credit points. Prerequisites: 11.4407, 11.4408. 
The incorporation of plant and accessories in the building fabric. Economic routing; noise; identification; incompatibility; outlets. Project.

11.4440  Building Materials A  
2 credit points. Prerequisite: 11.4402. 

11.4441  Building Materials B  
5 credit points. Prerequisites: 11.4402, 11.4405. 
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
4 credit points. Prerequisites: 11.4404, 11.4405, 11.4602.
Computer-based methods of analysis for linear structures. Tutorials and project.

11.4451 Advanced Structural Design
4 credit points. Prerequisites: 11.4404, 11.4405, 11.4602.
Detailed structural design for common engineering materials. Tutorials and project.

11.4452 Models Analysis and Form-finding
3 credit points. 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
5 credit points. Prerequisites: 11.4404, 11.4320, 11.4405.
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
5 credit points. Prerequisite: 11.4453.
Design application of 11.4453 Surface and Spatial Structures A, individual or group work.

11.4455 Technology Research A
5 credit points. Prerequisites: 156 credit points and 11.4405 or 11.4406.
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.

11.4456 Technology Research B
5 credit points. Prerequisite: 11.4455.
Additional 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.

11.4501 Practice and Management I
2 credit points. Prerequisites: nil.
1. The client, the community, the architect's responsibilities. 2. The other design consultants: rules, responsibilities and ethics of the various professional disciplines. 3. Introduction to the Local Government System. 4. Relevant SAA Specifications and Codes of Practice. 5. Information handling systems (CiSIB). 6. Management Theory. 7. Seminars and assignments.

11.4502 Practice and Management II
2 credit points. Prerequisite: 11.4501.
1. The Client, the Brief. 2. The architect's responsibility in law and practice: contracts; tort, property rights; taxation; insurance (life, property); professional indemnity. 3. Registration of Architects; the professional institutes; architects' payment (fees, rate); form of agreement with client; other consultants' fees and method of payment. 4. The construction industry, builders, subcontractors, suppliers. 5. Introduction to documentation: the drawings, types, etc.; specifications, types, etc.; schedules; Bills of Quantities; specified bills of quantities; computer application. 6. The various forms of Building Contract. 7. Management functions: introduction to the organization, its objectives and structure. Forecasting, planning, co-ordinating and communicating. 8. Seminars and assignments.

11.4503 Specifications and Building Economics
3 credit points. Prerequisite: 11.4502.
1. The specification, its function, its various forms, its relationship to the other contract documents, all in detail. 2. Estimating, what it is, why and how, including computer applications. 3. Cost planning is not estimating, what it is, why and how it is done, including computer applications. 4. Case studies and applications in these three areas. 5. Seminars and assignments.

11.4504 Building Contracts
2 credit points. Prerequisite: 11.4503.
1. The processing of information for the Bill of Quantities. The preparation of production, information, drawings, specifications, schedules, cost plans. 2. The recommendations of forms of contract, the obtaining of necessary approvals, recommendation of tenders, the form of tender, preparation of information for the contractors' programming. 3. Obtaining specialist quotations and P.C. sums, provisional sums, monetary sums, investigating the supply position of key materials and plant, initiating advance ordering. 4. Provisional and separate contracts (ie documentation, excavation). 5. Assembling and issuing all tender documents, determining nominated suppliers, nominated subcontractors, co-ordination of other consultants, documentation and tending (ie mechanical and electrical); agreement of contract details, investigation of contractor's resources, and experience. Recommendation of action on tenders received. 6. The detailed study of responsibilities and liabilities of the architect and consultants, the relevant fees and/or remuneration. 7. Statutory requirements: procedures in the completion of the documents for the signing of contracts; the status of the signatories. 8. Seminars.
11.4505 Contract Administration
2 credit points. Prerequisite: 11.4504.
1. The contract: signing, distribution of production information to all relevant parties; the updating of critical dates for contracts, programming; site staff; final nomination of sub-contractors and suppliers. 2. Making inspections, instructions, certificates, extra documentations, variations, extras. Processing of claims and contract. 3. Rise and fall. 4. Practical completion; inspections; outstanding works; the handing over. The defects liability period and its administration. Obtaining guarantees, processing of retention money and final account. 5. The responsibilities and liabilities of the architect and the consultant, the relevant remuneration. 7. Arbitration and litigation. 8. Post-contract activities, the appraisal of the contract, the gathering of information of managerial, technical, design and operational aspects of the contract and the building from all involved parties. Feedback of performance for use on other projects; obtaining and using cost analyses; attendance to matters of the non-performance of parts of the building; retention of records for periods relevant under the Statute of Limitations. 9. Seminars and assignments.

11.4520 Management Systems and Finance
2 credit points. Prerequisite: 11.4505.
1. Systems employed in the architect’s management functions. 2. Systems thinking, PERT, C.P.M., 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
3 credit points. Prerequisite: 11.4503.

11.4522 Building Economics and Development
3 credit points. Prerequisite: 11.4503.

11.4523 Management for Architects
2 credit points. Prerequisite: 11.4505.

11.4524 The Architect and the Law
3 credit points. Prerequisite: 11.4505.

11.4525 Project Management
3 credit points. Prerequisite: 11.4505.

11.4526 Industrial Relations
2 credit points. Prerequisite: 11.4522.
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.
11.4601 Introduction to Communication
6 credit points. Prerequisites: 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
2 credit points. Prerequisites: nil.
Introduction to the computer and its availability as a problem-solving tool, description and usage, specific applications in particular subject areas. Data preparation; language, flowcharts, program-writing.

11.4603 Graphic Communication
5 credit points. Prerequisites: nil.
Development of techniques and skills in visualization, presentation to the client and production drawings. Different techniques for constructing perspectives and parallel projections. Location, assembly and component drawings, schedules. Charts and diagrams.

11.4604 Graphic Communication Theory
4 credit points. 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.

11.4622 Spatial Communication
2 credit points. Prerequisites: 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
3 credit points. Prerequisites: 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
3 credit points. Prerequisites: 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
3 credit points. Prerequisite: 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.

11.4626 Architectural Ceramics and Sculpture
3 credit points. Prerequisites: 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
4 credit points. Prerequisites: 11.4602 and 130 credit points.
Use of the computer for design graphics, presentation and production drawings and graphics programming.
11.4628 Aspects of Style in Art
4 credit points. Prerequisite: 11.4629.

Aspects of modern art movements and their influence as bases for stylistic developments evident today. Awareness of the sources of style in graphic and other art forms and a capacity to express ideas at a professional level, in these terms.

11.4629 Graphic Art
4 credit points. Prerequisite: 11.4604.


11.4630 Drawing and Painting
4 credit points. Prerequisite: 11.4601.

Emphasis on direct drawing from sketches to graphic studies, in traditional and contemporary styles, using a variety of media and visual clues. Light and shade as pattern; positive and neutral space, dynamic relationships, surface, texture, etc.

Emphasis on different painting styles and media; space depth; light and shade; colour; brightness gradient; thematic development, etc.

11.4631 Advanced Graphic Concepts
4 credit points. Prerequisite: 11.4629.

The communication and definition of ideas, concepts, objective themes and structural form, and their uses in graphic (or other) terms. The subject is intended to promote in the student a professional level of performance tempered by the student’s own personality, to lead to continuing development beyond immediate graphic needs. It also involves consideration of materials, methods and techniques as appropriate and ethical, and the development of skill and discrimination in the use of contemporary media.

11.4702 Thesis
12 credit points. Prerequisite: 156 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 architecture which is not covered in the course or to increase knowledge in some aspect which has been covered. As such the thesis is 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.

11.4703 Practical Experience
6 credit points. Prerequisite: 130 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
26 credit points. Prerequisite: 156 credit points.

This subject is required for students who may enrol in the BSc(Arch) degree course at honours level and represents the architectural endeavour in which the student wishes to major. The project should demonstrate a depth of knowledge of the chosen aspect of architecture that extends beyond that normally required of a practising architect. It may be a graphic and/or written presentation. It 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.

General Studies Subjects

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

Other Elective Studies

11.4704 Architectural Research
4 credit points. Prerequisite: 156 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
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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

20 credit points. Prerequisite: 208 credit points. Selection on merit.
This semester unit is available to students who wish to culminate their studies in a project in which a scheme is resolved in depth in selected and approved areas of architecture, including architectural design, urban design, interior design, construction, structure, services, acoustics, lighting or practice and management. Students are offered a project by the School, or may choose their own project 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 11.4702 thesis 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.

Other Subjects

11.134 Graphic Communication for Town Planners I


11.135 Graphic Communication for Town Planners II


Graduate Study

11.901G Architectural Synthesis I 9 credit points

11.902G Architectural Synthesis II 11 credit points

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 2 credit points

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 2 credit points

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 2 Credit points

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 2 credit points

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 2 credit points

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 Buildings 2 credit points

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  2 credit points

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. Re-cycling 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.

School of Accountancy

Undergraduate Study

14.001  Introduction to Accounting A
2 credit points; compulsory for BBuild degree course students. Prerequisites: nil.


14.002  Introduction to Accounting B
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.

School of Psychology

Undergraduate Study

12.001  Psychology I  F L3T2
An introduction to the content and methods of psychology as a behavioural science, with emphasis on the biological and social bases of behaviour, relationships to the environment and individual differences. Includes training in methods of psychological enquiry, and the use of elementary statistical procedures.

12.052  Basic Psychological Processes II  S1 L2T2
Prerequisite: 12.001.

The basic phenomena of behaviour and experience in a biological context.

12.062  Complex Psychological Processes II  S2 L2T2
Prerequisite: 12.001.

Information processing and cognitive functioning, and social bases of behaviour and personality.

12.152  Research Methods II  F L2T1
Prerequisite: 12.001. Excluded: 12.082.

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

Psychology III

Comprises four Level III units selected in consultation with the School of Psychology. Subject descriptions for Psychology Level III units are in the Sciences Handbook.

14.051  Law for Builders I
2 credit points; compulsory for BBuild degree course students. Prerequisites: 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 obligations.

General principles of law of agency. Law of partnership.

14.052  Law for Builders II
2 credit points; compulsory for BBuild degree course students. Prerequisites: 14.051

Law of negotiable instruments. General principles of insurance law. Sale of goods and a general introduction to the law of bankruptcy and company law. Law related to non-commercial succession to property.

14.053  Law for Builders III
4 credit points. Prerequisites: 14.052.

Industrial law, including references to Commonwealth and State statutory provisions dealing with conciliation and arbitration. State and Commonwealth awards. Industrial disputes.

Employers' associations. Trade unions. Real property and local government law.
School of Economics

Undergraduate Study

15.901 Economics for Town Planners

Department of Industrial Arts

Undergraduate Study

21.903 Project

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

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

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

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

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

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

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

21.312 Industrial Arts II,
21.313 Industrial Arts III and
21.314 Industrial Arts IV
These subjects are divided into the following nineteen units. See Course Outlines for choice of units.

Traditional Technology

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

The theoretical areas of traditional technology include: 1. the methodology and techniques of ethnographic enquiry; 2. a systematic examination of the material culture and artefact production in the societies of Asia; 3. an examination of traditional technology in Eastern Australia and 4. an investigation of the industrial archaeology of Eastern Australia.

The laboratory and fieldwork areas include group and individual projects involving: 1. experimental laboratory work on the examination and production of artefacts using established techniques, and 2. fieldwork examining a wide range of traditional technologies and industrial archaeological sites using ethnographic and surveying techniques.

21.3121 Traditional Technology I
Prerequisite: 21.3116 or equivalent.

The relationship between traditional technology, ethnography and archaeology. The methodologies of the social and physical sciences and their application to traditional technology. The methods and techniques to be used in measuring and defining buildings and structures and recording small scale traditional technologies. Introduction to traditional design.

Laboratory and fieldwork: Various techniques used by traditional craftsmen in the production of artefacts. An analysis of selected buildings and sites.
21.3131 Traditional Technology II  
*Prerequisite: 21.3121 or equivalent.*  
Social, technological and design aspects of traditional technology. The philosophies encompassing the etic and emic approaches to fieldwork. Methodologies of ethnographic reporting. The development of early Australian crafts and technologies with special reference to traditional building technologies.  
Laboratory and fieldwork: Selected methods of artefact production. The investigation of the Australian traditional technologies of gold-mining and refining, timbermilling, brick-making and building, their background and development.

21.3141 Traditional Technology III  
*Prerequisite: 21.3131.*  
The application of theoretical models to ethnotechnology. The study of socio-cultural systems with special reference to their material cultures. An advanced study of traditional Australian technology.

Laboratory: Materials, techniques, tools and processes used by selected cultures in the production of artefacts. Advanced field research into the traditional Australian technologies with emphasis on traditional building technologies.

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

21.3122 Craft IA (Ceramics)  
The characteristics of earthenware, stoneware and porcelain. Glazes, kilns and forming methods. An introduction to the geology of ceramic materials and their properties. Practical experience in hand building methods, introductory throwing and design in pottery.

21.3132 Craft IIA (Ceramics)  
*Prerequisite: 21.3122.*  
The history of pottery focusing on China and its relationship to other countries. The emergence of a ceramic industry in Europe. Body formulation, glaze chemistry and calculations. Further practical experience with emphasis on throwing and design skills.

21.3142 Craft IIA (Ceramics)  
*Prerequisite: 21.3132.*  
Present day craft and industrial practice. Kiln and firing techniques. Setting up and running a craft pottery. Further practical experience with emphasis on throwing and design skills.

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

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

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

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

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

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

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

21.3143 Industrial Design III  
*Prerequisite: 21.3133.*  
An international survey of design education from 1850 with particular reference to the contemporary situation. Theories of Industrial Design with emphasis on the contemporary situation. The nature of 'good' design, the ethics of design, styling and design, and the multi-nationals, design and the developing countries.

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

Graphics

The graphics units are concerned with two-dimensional means of analysis, abstraction, synthesis and communication, of two and three dimensional design problems and concepts. Initially the units are concerned with the application of graphic method to the industrial design, traditional technology and craft units, as well as to the solution of two-dimensional design problems. The course develops into the study and practice of graphic design. The units are made up of lectures, demonstrations, group discussions and criticism, with design projects as the subject core.

The theoretical aspects are concerned with:

1. the historic, social, economic, and psychological aspects of two-dimensional communication and graphic design
2. the methodology and techniques of graphic design.

The design projects are set in many different media, and give the student an opportunity to solve problems over the whole spectrum of graphic design. Visits to the office of a consultant designer and a company design team, will be undertaken in conjunction with other units of the Industrial Arts course.

21.3124 Graphics I

Prerequisites: 21.3112, 21.3113, 21.3114, or equivalents.

The history and background of contemporary graphic design. Detailed study of graphic method and techniques—perspective, geometric projections, typography, photography, descriptive geometry, graphic design and layout, printing and photomechanical reproduction.

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

21.3134 Graphics II

Prerequisite: 21.3124.

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

A study of graphic design case histories.

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

21.3144 Graphics III

Prerequisite: 21.3134.

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

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

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

Industrial and Social Organization

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

21.3125 Industrial and Social Organization I

Prerequisite: 21.3115

The general development of twentieth century industrial organization and society. The nature of work and some important psychological, sociological and economic factors in industrial dynamics.

21.3135 Industrial and Social Organization II

Prerequisite: 21.3125

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

21.3145 Industrial and Social Organization III

Prerequisite: 21.3135


21.3147 Appropriate Technology

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

21.3126 Project

The project provides the opportunity for practice in research methods, teamwork, and planning, organizing and conducting study in the field of industrial arts.
21.3146 Advanced Project

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

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

21.3127 History of Art and Design

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

21.501G Industrial Design

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

Historical, social and aesthetic bases of industrial design.
Design Methodology.
Design Principles.
Signs, Symbols and Communication.
Ergonomics.
Professional, Commercial and Industrial Practice.
Design Media.

21.511G Design Projects

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

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

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

21.521G Seminar

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

21.531G Creative Art (Elective)

Undergraduate Study

27.801 Introduction to Physical Geography  S1L2T2½

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

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

Undergraduate Study

29.411 Surveying for Architects and Builders
2 credit points; compulsory. Prerequisites: nil.


29.901 Introduction to Mapping
S1L1T½

Mapping: map types, map reading, scale, relief, depiction of features, cartography, photogrammetry.


35.202 Soil Mechanics for Building
S2L1T1
2 credit points; compulsory. Prerequisites: 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 stabilisation; introduction to foundation design; laboratory testing of soils.

35.500 Building Graphics
S2L2T4
6 credit points; compulsory. Prerequisites: 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 I
S1L3T2
5 credit points; compulsory. Prerequisites: nil.

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 II
S2L2T2
5 credit points; compulsory. Prerequisites: nil.

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.

35.503 Construction III
S1L2T2
5 credit points; compulsory. Prerequisite: 35.501.

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 IV
S2L2T2
5 credit points; 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 V

5 credit points; 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 VI

4 credit points. 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 anchorages, 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.

35.507 Construction VII

4 credit points. Prerequisites: 35.505, 35.703.

Comparative studies of construction systems for the various types of buildings: industrialized housing, tilted-up, top-to-toe, progressive strength, lift slab, pneumatic structures, cable structures, pneumatic forming, slip form, mobile buildings.

35.508 Construction VIII

4 credit points. Prerequisites: 35.505, 35.704.

Industrialized techniques of material and component manufacture. Production planning and control: Factory layout design, materials handling, plant and equipment, automatic and semi-automatic processes, numeric control, production and analysis. Raw materials technology, timber, metals, ceramics, plastics, etc. Storage, packaging and transportation of finished products.

35.551 Structures I

5 credit points; compulsory. Prerequisite: nil.


35.552 Structures II

5 credit points; compulsory. Prerequisite: 35.551.

Revision of forces and equilibrium: oblique forces, cranked beams, beam-columns. Basic principles of space structures. Design of beams in timber, steel and reinforced concrete.


35.553 Structures III

5 credit points; compulsory. Prerequisite: 35.552.


Use of computer packages in designing building frames.


Elements of prestressed concrete beam design. Cost comparison of single-storey frame structures.

35.554 Structures IV

4 credit points. Prerequisite: 35.553.


Temporary structures and construction loads; design for construction loads. Design of building foundations and temporary supports for foundation construction.

35.570 Environmental Studies

2 credit points. Prerequisites: nil.

Some of the problems faced by those who will be building and managing future projects. A broad introduction on the physical characteristics of the Sydney Region; i.e., projected land-use growth factors; 2. major transport systems, and a brief summary of the architectural history of the Region.

Undesirable impact on the environment: 1. noise; 2. pollution of land, air, water; 3. wastage of resources; 4. re-development problems: (1) client's view, (2) architect's view, (3) landscaper's view, (4) role of environmental impact studies. Public reaction to the above. Comments and discussions with resident action groups, green ban supporters, etc. Seminars to discuss building techniques and possible structural methods to satisfy both client requirements and public concern.

35.580 Building Design Analysis

3 credit points. 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.

35.581 Historical Development of Building  S1L2
2 credit points; compulsory. Prerequisites: 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.

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 I (Materials)  S1L2T2
4 credit points; compulsory. Prerequisites: nil.
Properties of materials: plasticity, elasticity, density, porosity, hardness. Optical, electrical, thermal and acoustic properties.
Deterioration. Properties and manufacture of building materials: wood, wood products, cements, limes, concrete, bricks, metals, asbestos cement; ceramics, plastics, sealants and mastics, stones.

35.602 Building Science II (Energy)  S1L3T3
5 credit points; compulsory. Prerequisite: 1.931.
The thermal environment: heat and comfort, heat transfer, thermal storage, thermal resistance, insulation, water vapour, condensation, vapour barriers, ventilation, environmental parameters, comfort indices, heat flow through glass, solar radiation, shading coefficient. Acoustics: the nature of sound: velocity, wavelength, frequency, intensity, sound pressure, sound power, sound analysis and subjective loudness: dBA level; assessment of noise annoyance: airborne sound transmission: sound attenuation, transmission loss, absorption coefficients, transmission class, composite partitions; recommended acoustic criteria, introduction to auditorium acoustics.
Solar control: solar position diagrams, spherical projections, shadow angles, effect of latitude, longitude, magnetic north and equation of time, shading devices, sky factor, sunlight in streets, shading by tall buildings. Daylighting: daylight factors, reflected daylight, availability of daylight, design.
Artificial light: light sources, colour, luminaires, luminaire design, glare, lighting quality, spatial illumination, maintenance.

35.603 Building Science III (Computing)  S2L2T4
5 credit points; compulsory. Prerequisite: 35.670.
Introduction to computer programming and applications. Anatomy of the computer; communication with computers, analysis of problems for solution by computer; elements of a computing language; programming via batch processing and time-sharing; processing of existing application programs; applications in general; applications in building, social issues.

35.604 Building Science IV (Plastics)  S2L2T1
3 credit points. Prerequisite: 35.601.
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 V (Concrete)  S1L2T1
3 credit points. Prerequisite: 35.601.
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 VI (Metals)  S2L1T2
3 credit points. Prerequisite: 35.601.
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, strain hardening.

35.607 Building Science VII (Thermal)  S2L1½T1½
3 credit points. Prerequisite: 35.602.
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.

35.608 Building Science VIII (Systems)  S1L2T2
4 credit points. Prerequisite: 35.603.
Systems analysis methods. The systems approach of considering the interconnection of processes forming part of a larger whole, is introduced as a general concept applicable to biological, social and scientific disciplines. In particular, the systems analysis techniques of
network analysis, mathematical programming, and simulation is studied in relation to the planning, design and construction management of building projects.

### Subject Descriptions

#### 35.609 Building Science IX (Timber) S2L1½T1½

3 credit points. Prerequisite: 35.601.

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 I (Hydraulics) S2L2

3 credit points; 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 II (Environmental) S1L2

3 credit points; compulsory. Prerequisite: 35.602.

Environmental services for small to medium size projects: fuels and heating appliances; electrical trunking, switching and wiring; package air conditioning units; garbage disposal and incinerator systems; telephone and security systems; lifts and escalators.

#### 35.653 Services III (High Rise) S2L4

4 credit points. Prerequisites: 35.651, 35.652.

Hydraulic and environmental services pertaining to major projects such as high-rise buildings; sanitary plumbing systems suitable for multi-storey buildings; air-conditioning loads, psychrometrics, central air distribution; electricity supply and distribution, systems of wiring and trunking; fire fighting services and equipment; lift control systems; escalators and moving walks; communication systems, telephone, fire alarms, intercom, pneumatic tubes and mechanical mail conveyors; planned building maintenance, pollution, disposal for special wastes and an introduction to closed ecological systems.

#### 35.670 Mathematics for Builders S1L4T2

4 credit points; compulsory. Prerequisites: nil.


### 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 I S1L2

4 credit points; compulsory. Prerequisites: nil.

Scientific management principles, administration and supervision; principles of organisation, individual and group behaviour; technical report writing; the Australian economy and the building and development industry; 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 II S2L2

4 credit points; compulsory. Prerequisite: 35.701.

The application of scientific management theory in practice with particular reference to building organisations. 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 III S1L2

4 credit points; compulsory. Prerequisite: 35.702.

Systems concepts and their relevance to building, planning and construction problems.

Basic decision theory, techniques and procedures. 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. Technical supervision. Planning and control techniques and their application. Cost control.

#### 35.704 Management IV S2L2

4 credit points; compulsory. Prerequisite: 35.702.

Building contracts and contract administration. Site organisation, plant and equipment. Building methods and materials handling. Construction analysis and production methods.

#### 35.705 Management V S1L1T2

4 credit points. Prerequisite: 35.704.


#### 35.706 Management VI S2L2T2

4 credit points. Prerequisite: 35.704.

35.707  Management VII  

4 credit points. Prerequisites: 35.704, 35.862, 14.002.

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. 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.

35.708 Management VIII  

4 credit points. Prerequisites: 35.704, 35.862, 14.002.

Finance and 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 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 instability and failure.

35.710 Building Information Systems  

4 credit points. Prerequisites: 35.603, 14.001.

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

35.720 Commercial Arbitration  

4 credit points. 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. Arbitration in contracts case studies, and moot arbitration.

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 I (Measurement)  

4 credit points; 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 II (Billing)  

4 credit points. Prerequisites: 35.504, 35.870.

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.

35.803 Quantity Surveying III (Cost Planning)  

2 credit points. Prerequisite: 35.802.

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

35.851 Building Economics I  

6 credit points, compulsory. Prerequisite: 14.002.

The national economy—its relation to and effect upon the building industry. Estimating techniques for building works; analyses of 'all-in' materials, labour and plant rates; analyses of trade unit rates; preliminary items.

35.862 Building Economics II  

5 credit points. Prerequisite: 35.851.

Builders' plant scheduling and determining charge rates; establishing of general overheads; study of preliminary items; cost adjustment procedures; preliminary estimating; tendering procedures; competitive tendering; computer techniques applied to estimating.

Entrepreneurship in the building industry; depreciation, effects of taxation; building plant operation costs; materials handling; ergonomics; small business economics in the building industry; capital investment appraisals, economics life and replacement economy, operations research. Case studies.

35.853 Building Economics III  

5 credit points. Prerequisite: 35.862.

Economic advantages and disadvantages of conventional onsite construction and industrialized building components and system building. Financial controls used in the erection, management, maintenance and demolition of buildings. Cost benefit analysis, utility, costs and benefits; compensation tests and equity; social welfare functions; accounting prices, external effects and public goods; social rate of discount; formulae for project choice; risk and uncertainty; case studies.
permitting the student's unsupported opinion. The topic of the thesis is new facts or the testing of an hypothesis. Neither is it an essay require original experimental research for the purpose of discovering evidence of this individual study. The study does not knowledge of some aspect which has been covered. As such, the thesis of building which is not covered in the course or to increase his object of allowing the student either to gain knowledge in some aspect

35.900 Thesis (Building) S1 and/or S2
10 credit points; 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 this subject over two consecutive sessions (if desired) and may commence in Session 1 or Session 2.

35.910 Industry Semester S1 or S2
3 credit points; 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.

Other Subject

35.920 Building Techniques — Town Planning S1L2
A general background of the building industry, its products and those who produce them. Directed towards the interests of Town Planners, study areas include the building process, principles of construction, construction methods and economic aspects.

Graduate Study

35.212G Pre-Construction Management S1L2
2 credit points. Prerequisites: 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 S2L2
2 credit points. Prerequisites: nil.
Contract administration, sub-contractors, relationship and communications during construction and commissioning, case studies, analysis of areas of dispute between parties.
35.231G  Operations Planning  S1L4
4 credit points. Prerequisites: nil.
Advanced planning and control systems, computer application to planning and control. Time, cost and quality trade-offs, management models, decision theory and risk analysis, construction strategy, resource scheduling.

35.232G  Systems Modelling  S2L2
2 credit points. Prerequisites: nil.
Systems concepts and modelling. 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  Graduate Project (Compulsory)  FL1
10 credit points. Prerequisites: nil.
Each student is registered for the Graduate Project 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 graduate project.

35.254G  Personnel Management  S2L3
3 credit points. Prerequisites: nil.
Management of design and construction of personnel, motivation and personnel theory, selection and development, industrial psychology, industrial relations.

35.275G  Property Management  S2L2
2 credit points. Prerequisites: nil.
Designing for better property management, maintenance, plant and equipment selection, economic, technical and tax trade offs, obsolescence, material selection, development proposals.

35.296G  Construction Techniques  S1L3
3 credits points. 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 will be undertaken. Rehabilitation of existing buildings.

35.297G  Developments in Building Materials  S1L2
2 credit points. Prerequisites: nil.
Current developments in the application of building materials. Technical developments and innovations affecting the utilization of building materials, case studies of recent designs and applications.

35.300G  Cost Planning and Analysis  S1L2
2 credit points. Prerequisites: 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  S2L2
2 credit points. Prerequisite: 35.360G.
Introduction to computer graphics and graphic devices: drum and flat-bed 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 I  S1L3
3 credit points. Prerequisites: nil.

35.361G  Computer Techniques and Applications II  S2L2
2 credit points. 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  S2L2
2 credit points. Prerequisites: 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 S1L2
2 credit points. Prerequisites: 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 S1L2
2 credit points. Prerequisites: nil.
Psychophysical analysis of parameters affecting comfort; the visual acoustical and thermal environment; human engineering.

35.390G Co-ordination of Structures and Services S2L2
2 credit points. Prerequisite: 35.425G.
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 building. Co-ordination of services.

35.400G Economics of Services S2L2
2 credit points. Prerequisites: nil.

35.426G Building Services S2L3
3 credit points. Prerequisites: 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 S2L2
2 credit points. Prerequisites: nil.
The inter-relationship 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 S1L2
2 credit points. Prerequisites: 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 S2L2
2 credit points. 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.

35.4211 Introduction to Planning

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.

35.4212 Planning Studies
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.

Part I — Role of Planning Studies
Type, purpose and scope of planning studies. Planning studies in the planning process; relationships to various contexts, objectives, decision-making situations and forms of implementation. Study design and presentation.
Part II — 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

Prerequisites: 36.211 and 36.212.

A studio, practical exercise, and lecture program focusing on the principles and practice of planning new and existing neighbourhoods and stressing the integrated nature of the skills and theory used in town planning for these activities.

At the scale being studied, the course includes civic and land surveys and their analysis; urban and natural environment conservation; social and political issues; energy considerations. It also encompasses planning for redevelopment and renewal; housing layout; basic traffic management and street design; subdivision and service layouts.

Case studies of existing and new areas. Students carry out the planning activities required to understand and practice the planning of such areas, including the preparation of environmental planning studies.

36.214 Development Planning I

Prerequisites: 36.211 and 36.212.

A studio and lecture program focusing on growth, decay and change in existing urban areas, and aimed at an understanding of growth and development patterns, particularly considered as a consequence of accessibility; structure planning of new urban settlements; new towns in Australia and overseas; studies in retail trading, the location and design of shopping centres and industrial areas.

36.215 Statutory Planning I

Prerequisite: 36.213.

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 Statutory Planning.

Part I — Planning Law

Conceptual/theoretical nature of the law, the relationship between 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.

Part II — Planning Administration

Administrative content 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 art of management, administrative theory, personnel administration, the role and responsibility of the professional planner in the public and private sector.

Part III — Statutory Planning

Historic evolution of statutory planning in Australia, the techniques/procedures needed to transform planning policies and proposals into legal instruments such as, in NSW, 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 planner as an expert witness. Statutory planning in Australia.

36.218 Metropolitan Planning I

Prerequisite: 36.215.

Definitions of a metropolis in terms of demography, accessibility, economics and politics. Metropolitan structure and organization: social and land use distribution, communications and access; power relationships between decision makers; gains and losses. Planning Methodology: problems of expansion, decay, deprivation; planning for growth, change, improvements at metropolitan scale; critical evaluation of planning policies and processes. Australian and overseas metropolitan centres; plans and organization, metropolitan planning in Third World Countries.

36.219 Regional Planning

Prerequisite: 36.218.

Planning theory and practice at a regional level of scale. Regional analysis including location theory, strategies of regional policy. Trends in the rural and extractive industries. Sub-regional analysis including ecological land use planning, recreation and preservation. Introduction to research techniques. Environmental impact assessment.

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 the fourth year of the course and the completed thesis is submitted for examination towards the end of the fifth year.

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

Related Subjects

36.451 History of Town Planning

Aspects of 'land' concerned with the control of land use, land ownership of proprietary interests in land, land valuation, management, land reforms, land development, land transaction and sociological and technological factors which affect the individual mental of land as a national resource, and with the economic, legal, administrative, cultural and social aspects of land within national and international frameworks. Land Economy is concerned with the use, management and development of land as a national resource, and with the economic, legal, sociological and technological factors which affect the individual ownership of proprietary interests in land.

11.134 Graphic Communication I
Technical drawing for town planners.

11.135 Graphic Communication II
Freehand drawing for town planners, graphic presentation, visual analysis.

36.222 Introduction to Computers and Information Systems
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
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.

35.242 Building Techniques
Building types and characteristics, planning, design and construction process. Costs of building and site works. Building and environmental relationships: access, sun, light, wind, foundations.

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

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

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

36.233 Environmental Science II
Influence of the ecology of the natural environment on human activities and the methods by which elements of the natural environment can be incorporated into the planning process. Topics include the evaluation of the planning techniques of McHarg, Fabos, CSIRO, Harvard University as well as the methods by which components or aspects of the natural environment - mass air movement, microclimate, air and water pollution, river systems, wetlands, conservation, etc - can be incorporated into planning practice.

36.225 Public Policy and Urban Government
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
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.

15.901 Economics for Town Planners
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 costs.

36.461 Engineering

The provision of public utility services: town water supplies, sewerage, drainage, flood management, electricity and gas supply, telecommunications. 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.

36.228 Transportation Planning

A series of lectures/seminars on the relationship between urban planning and transportation planning with particular reference to
transport needs, objectives, systems, forecasting, planning and management within an urban planning framework.


36.234 Urban Design

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.

The material is to be covered by means of lectures, seminars, visual analysis exercises and urban design case studies and projects.

36.437 Regional Survey Camp

Fifth year students are required to attend a Regional 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


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, 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

36.301 Third World Planning

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.

36.302 Urban Conservation

Definitions and philosophy of urban conservation; setting objectives and formulating policy; criteria for selecting and assessing conservation areas; planning considerations 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.

36.303 Subdivision Design

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.

36.304 Development Planning II

Research and design into a topic at the town scale of current concern in planning.

36.305 Urban Studies

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.

36.306 Statutory Planning II

Aimed at increasing the student’s knowledge and awareness of issues in the general areas of Planning Law, Planning Administration and Statutory Planning.

36.307 Metropolitan Planning II

The concept of the metropolis: historical development of metropolitan areas; political and social forces; metropolitan values and lifestyles; future possibilities — growth, decline, change.
36.308 Metropolitan Planning III
Planning methodology in metropolitan areas; a critical overview and a detailed examination of planning processes, policies and programs for selected areas/functions/institutions.

36.309 Regional Planning II
Original research into a regional topic of current concern in planning.

Subject offered to other schools

36.411 Town Planning

Subjects of the old course to be phased out progressively

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

36.440 Planning Elective
Students have the opportunity to develop with staff a specialization in an area of interest such as: Australian planning history, recreation planning, urban systems. The study area depends on staffing resources and facilities.

36.472 Planning Law

36.473 Statutory Planning
An Introduction to the techniques needed to transform the policies and details of planning proposals into documents which will have the support of the law. Complementary to 36.472 Planning Law. Includes the evolution of statutory planning in the United Kingdom and Australia, with particular reference to New South Wales.

36.474 Planning Administration
A general outline of public administration in Australia. The administration of planning at National, State and Local levels in Australia. Overseas models of planning administration. The development application process. Personnel administration. The role and function of the Royal Australian Planning Institute.

36.482 Land Valuation

36.513 Precinct Planning
Prerequisites: 36.511, 36.512
Precinct planning in existing urban areas. The scope and limitations of small-scale local planning in existing urban areas, and the role of the town planner in this. Objectives; surveys; analyses; identification of options. The role and methods of citizen participation. The nature and purpose of zoning. Studio and field exercises in civic survey, and environmental studies.

36.514 Neighbourhood Planning
New residential neighbourhoods. The nature and elements of the neighbourhood. The skills necessary to design residential areas for up to 10,000 people. Constraints. Requirements: community services and facilities. The design process. Methods of implementation. Effects on land values and taxes.

36.515 Planning of Towns
Prerequisites: 36.513, 36.514
Lectures on the growth, change and decay of urban areas, on new towns in Australia and overseas, and on commercial and industrial areas. General town design concepts and issues. Field excursions and studio exercises in the planning and design of existing and new urban areas in both the metropolitan and rural context. Synthesis of previous studies in plan preparation and administration, in neighbourhood planning, and in transportation and traffic planning.

36.521 Research Methodology
Social science research methods. Sampling techniques, questionnaire design, interviewing, data processing, use of packaged computer programs. Introductory statistical methods. Applications to data. Demographic methods; growth rates, population composition.
Graduate Study

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 I
36.931G Theory of Neighbourhood Planning II
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.

36.932G Practice of Neighbourhood Planning I
36.933G Practice of Neighbourhood Planning II
36.934G Practice of Neighbourhood Planning III
36.935G Practice of Neighbourhood Planning IV

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.

School of Landscape Architecture

Undergraduate Study

37.0014 Introduction to Computer Applications S2 L1T1
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 inter-relationships, data processing, file management, use of library programs, interpretation of results, basic programming.

37.3013 Man in His Environment S1 L2T1
An appreciation of man through behavioural studies, including territoriality and personal space identity. The understanding of the effect of environmental changes on man. Sociological techniques for understanding user requirements.

37.3015 Environmental Impact Assessment I S1 L1T1
37.3016 Environmental Impact Assessment II S2 L1T1
Available to students of the BArch degree course in Year 2 or Year 3. Prerequisite: 156 credit points, or as otherwise approved by Subject Authority.

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 is upon the role that environmental impact assessment should play as part of the planning process and landscape assessment methodologies are 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.

37.3338 Landscape Conservation and Rehabilitation S2 L1T3

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

37.5813 Plants and Environment S2 L2T1

Basic ecological concepts. Plant succession from rock, sand and water. In-depth ecological and floristic study of sites of undisturbed vegetation with measurement of human impact on similar sites. Development of methods of management of natural vegetation.

37.6041 Landscape Graphics I S1 L2T4

Basic landscape drawing with emphasis on pencil techniques, drafting conventions, layouts, lettering, instruments, drawing types, use of scales. The principles and application of orthographic, axonometric and isometric drawing, plane geometry and solid geometry. Basic use of symbols to graphically depict environmental factors.

Advanced drawing techniques including the use of media other than pencil. An investigation of perspective theory. Application of the principles of perspective to the drawing of landforms and elements in the landscape.

37.6042 Landscape Graphics II S2 L2T4

37.6043 Landscape Graphics III S1 L1T2

37.6044 Landscape Graphics IV S2 L1T2


Advanced graphic presentation techniques of survey, analysis, synthesis and final design documentation. A major graphic project is integrated with Landscape Design and Construction.

37.6203 Landscape Technology I S1 L2T2

An introduction to the nature of materials commonly utilized in landscape construction. The properties and applications of common building and construction materials, including testing procedures.

37.6204 Landscape Technology II S2 L2T2

Structural elements and the basic principles of structure. Analysis of the principles of construction, as applied to landscape construction applications and techniques.

37.6245 Landscape Engineering I S1 L2T1

Basic principles of road design. Introductions to: railway permanent way, airfield location, ports, harbours, structures in rivers, wave action and beach erosion. Uses of photogrammetry.

37.6246 Landscape Engineering II S2 L2T1


37.6352 Plants and Planting Methods I 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.

37.6353 Plants and Planting Methods II S1 L2T1

Plants as design elements, management of plant designs. Planting on reclaimed sites. Plants for specific sites; water plants, indoor plants, roof gardens. Observation of existing landscape schemes.

37.6585 Professional Practice I S1 L2

The landscape architect's responsibility in law; client and other professional's involvement in project development. The ethics and responsibilities of other design professions. Project procedure; the stages of a capital development project. Contracts, types of consulting and construction contracts, subcontracts and contract procedures. Contract documentation and preparation of tender documents, determination of nominated suppliers and subcontractors.

37.6586 Professional Practice II S2 L2


37.6587 Professional Practice III S1 L2

Contract administration and supervision; the role of the landscape architect. Site inspections, instructions, certificates, variations and extras; processing claims and contract works. Practical completion; inspections, outstanding works, rectification, handover upon completion. Administration of the defects liability period and/or the plant maintenance period. Responsibilities involved in administration of a construction contract; as a prime consultant or as a subcontractor. Insurances, bonding, and other control on contract finance. The rights and duties of the client and the contractor. Responsibilities of the landscape architect in contract administration.

Arbitration and litigation. Post-contract activities; maintenance manuals, appraisal of design and construction, retention of records. The Statute of Limitations.

37.6588 Professional Practice IV S2 L2

Landscape architecture as a profession; obligations, liabilities and responsibilities. The Australian Institute of Landscape Architects; history.
organization, relationship to registration of landscape architects. Office management and practice, the keeping of records, bookkeeping and accounting, taxes, correspondence and goodwill. Insurances and other requisites of practice and business operation. Copyright and document control.

37.7011 Landscape Graphics (Art) I  

37.7012 Landscape Graphics (Art) II  

Practical exercises in the basic grammar of form as an element of composition. Projects planned to develop:

1. Appreciation of the principles of composition in relation to a total graphic structure.
2. Effective graphic communication of ideas and concepts in terms of a variety of media.
3. The use of methods and techniques to effect clear graphic statements with an economy of means.

37.7013 Landscape Graphics (Art) III  

37.7014 Landscape Graphics (Art) IV  

Projects planned to develop:

1. A more complex and able employment of the graphic language.
2. An increasing ability to balance and judge the demands of pictorial content and formal structure in the graphic presentation of pictorial material or plans.
3. The potential of the individual student towards a personal expression based on increasing technical command of materials in a lucid, graphic style.

37.7116 Landscape Planning  

Current techniques of land-use planning based upon an analysis of natural phenomena and resource data. Landscape resources and data gathering techniques followed by the manipulation of modelling of resource data, introducing the idea of landscape values, site processes, mathematical models, statistical methods and evaluation procedures. Various analysis and assessment techniques developed by outstanding leaders in the landscape planning arena since the early 1960s in detail, as well as a number of planning studies and the recent work of government agencies which are concerned with wise land use resource allocation, modification or conservation.

Visual analysis, assessment and evaluation techniques detailed in order to incorporate this important aspect into planning models. Computer applications, including the LANPLAN program comprises an important component of the subject.

37.7101 Theory of Landscape Architecture  

An introduction to the discipline of Landscape Architecture. The design process. Landscape design, construction, maintenance and policies in both urban and rural environments. Design philosophies with recognition of ecological, social, functional and aesthetic consideration. The relationships between the various subjects offered in the landscape program and current research interests within the School. Basic techniques used in the landscape discipline which includes land management, elementary surveying, map reading, understanding of contours, grading, earthwork manipulation and general site appraisal.

37.7133 Landscape Design I  

The development of a logical design process. The understanding of aesthetic appreciation of knowledge of materials and construction applied through a range of simple landscape design exercises.

37.7134 Landscape Design II  

Practical landscape design ability is developed through more complex medium scale projects. Particular emphasis benefits arising from designed development, and the practical relationship to the cost of landscape work and its maintenance. The direction of study will be towards urban needs and the effective provision of environments of real benefit in medium and high density living, working and playing areas.

37.7135 Landscape Design III  

37.7136 Landscape Design IV  

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.

37.7137 Landscape Design V  

37.7138 Landscape Design VI  

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.

37.7195 Recreation Management and Design  

Contemporary public demand for recreation, related to the available space capable of fulfilling these requirements. Specific needs of a range of recreation activities analysed and those which conflict with the retention of public space identified. Various open space classifications — national parks, scenic areas, native reserves, national parks, historic sites, foreshore reserves and specific purpose areas such as water catchment and forestry areas — their usage and potential. Special needs of groups such as the handicapped considered. Review of current government policy and proposals and successful Australian and detailed study of overseas examples of planned recreational use.

37.8087 Landscape Thesis  

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

37.9013 History of Landscape Architecture  S1 L1½

Changing patterns of land-use throughout history as a reflection of their times and an expression of man’s attitude toward nature and his basic individual and social needs. Ancient Egypt, Assyria and Babylonia, Greece, Imperial Rome, the Middle Ages, Persia and Moorish Spain. The Renaissance in Europe, the English Landscape School and the Picturesque Movement. Effects of the Industrial Revolution and scientific plant exploration. The emergence of public parks.

37.9112 Prehistory of Landscape and Man  S1 L1


37.9120 Environment and The Landscape  S2 L2T4

Observation and interpretation of both physical and biological environment and their interrelationships. Perception and appreciation of landscape character through sensory inputs of sight, sound, smell and touch. Recording and presentation techniques associated with landscape surveys. Fundamental characteristics of biological systems, with emphasis on relationships with the physical environment. Survey of Australian plant communities and associated fauna with particular emphasis on the Sydney region.

37.9997 Practical Experience

Students of the undergraduate course must obtain a total of six 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 from 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.

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 finalising their program. Credit point values and prerequisites specifically refer to students of Architecture enrolled in courses 3270, 3280, or 3290.

37.100 Site Planning Elective*  S1 L2

2 credit points. Prerequisite: 52 credit points.

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.

37.200 Landscape Construction Elective*  S1 L2

2 credit points. Prerequisite: 156 credit points, or as otherwise approved by Subject Authority.

A general philosophy of care for the site, its landscape and wider environment is applied to the theory and practice of landscape construction. Students are given an understanding of why as well as how particular construction procedures and elements are used. Emphasis is upon the observation and measurement of natural drainage systems and microclimates and their application to the landscape design and construction process. Specific reference is made to the construction of roof gardens and earth-skeleton buildings.

37.300 Planting Design Elective  S2 L2

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.

37.400 Urban Landscape Elective  S1 L2

2 credit points. Prerequisite: 104 credit points.

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  S1 L2

2 credit points. Prerequisite: 156 credit points.

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.

Graduate Study

37.910G History of Landscape Design*  S1 L2

Primitive cultures and their impact upon the landscape through farming, transport and settlement patterns. Social influences, aesthetic beliefs and their expression through the ages in the design of parks and gardens. The industrial revolution and resultant changes in the humanised landscape. Landscape development in America and Australia.

*Not offered in 1981.
37.912G Landscape Engineering*


Bernoulli's Theorem, flow through orifices, over notches, in channels and pipes. Pumps and reticulating equipment.

37.913G Theory and Practice of Landscape*

Aesthetic philosophies of landscape design—scale—texture and colour. Design, construction and maintenance in urban and rural environments, including highways, residential areas, parks and gardens. Erosion control and shore protection.

Landscape surveys and analyses. Specifications, contracts, and office procedure.

37.914G Forestry and Horticulture*

Principal commercial trees—identification—planting techniques, care and maintenance, including fire and insect pests, and felling techniques. Forest nursery practice and forest economics. Characteristics, identification and specific requirements of selected plants and shrubs. Soil requirements and cultivation. Grasses, lawn and playing field construction. Use of herbicides and selective weed killers—control of insect pests.

37.915G Landscape Design*

A series of design assignments to be executed in the studio. It is anticipated that some work will be required to be done at home.

Graduate School of the Built Environment

Graduate Study

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. Definitions 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.

*Not offered in 1981
39.108G Conservation Technology C
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
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 as historical archaeology, documentation, legislation, economics, technology, or a specific building restoration project. Conditions governing submission of the Graduate Project appear in the Calendar.

39.651G Mechanical Shock and Vibration S1 L1T1
2 credit points. Prerequisites: 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 S1 L2T2
Prerequisites: 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.

39.993G The Ear, Hearing and Hearing Conservation S1 L1T1
2 credit points. Prerequisites: 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 programmes and audiometry; standards and regulations.

39.994G Graduate Project A S1
Prerequisite: 10 credit points.
An individual research project on an approved topic in acoustics; preliminary report.

39.995G Community Noise S2 L2T2
Prerequisites: 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 S2
Prerequisite: 39.994G.
An individual research project on an approved topic in acoustics; final report.

39.997G Auditorium Acoustics S2 L2T1
Prerequisites: 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 S2 L2T2
Prerequisites: 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.

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.

Servicing Subject
39.908G Community Noise Control S2 L1T1
**Undergraduate Study**

**43.202 Plant Structure and Function**  
S1 L2T4  
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.

**Graduate Study**

**53.321 Urban Sociology**  
A sociological approach to the study of urban phenomena. Seminars deal with both methodological and theoretical issues relating to the study of urban social structures and provide students with the opportunity to examine critically a number of community studies. A research project is undertaken by each student.
could compose education and the social and ethical context of education. These issues are followed up in much more detail in Selected Studies in Session 2.

Focus on logical and epistemological questions which are internal to the various teaching subjects. Students are assigned to one of the following Philosophy of Education groups:

- Philosophical Issues in Mathematics and Education
- Philosophical Issues in Literary Appreciation and Education
- Philosophical Issues in History and Education
- Philosophical Issues in Science and Education
- Philosophical Issues in Curriculum and Education
- Philosophical Issues in Language and Education
- Philosophical Issues in Social Science and Education
- Philosophical Issues in Industrial Arts Education

Selected Studies in Education

In the final session each student selects two education theory options from among a number available. While some deal with the separate disciplines of psychology, sociology and philosophy, others may draw material from more than one. In any particular year, the options offered depend on staff available and, to some extent, on student demand. Topics to be studied may include the following:

- Computer Assisted Instruction
- The Talented Child
- Learning Disabilities
- Social Trends and Problems
- Sociology of the School and Classroom
- Methodology for Criticism
- Ethical Theory and Moral Education
- Science and Religion in Education

Subject Descriptions

### 58.622 Industrial Arts Curriculum and Instruction I

**F L1½T2**

**Prerequisite:** 21.311. **Co-requisite:** 58.602.

An introduction to Industrial Arts education to provide students with basic knowledge about classroom management, workshop organization and the various special methods employed in the teaching of Industrial Arts in secondary schools. Encompasses a general consideration of the scope of secondary school Industrial Arts and, through a general survey of syllabus material, a preliminary consideration of aims and objectives of the various school programs including the place of personal skills development in Industrial Arts.

The laboratory program provides basic workshop/laboratory methodology applicable to junior school Industrial Arts, such methodology being particularly applicable to the syllabi for Form 1 Craft, Technics years 7-10 (in particular those strands drawing from the broad areas of woodworking and metalworking), and Industrial Arts, years 9-10 (in relation to its workshop/laboratory aspects only).

Students join other trainee-teachers in a segment known as *Applied Studies in Teaching Practice*. Here, problems of communication are discussed and the nature, use and role of language in learning situations is examined. The development of communication and teaching skills is furthered by means of peer-group microteaching.

### 58.623 Industrial Arts Curriculum and Instruction II

**F L1½T2**

**Prerequisites:** 21.312, 58.602, 58.622. **Co-requisite:** 58.603

School structure and organization, the roles of teachers and administrators and the rights, responsibilities and legal obligations of teachers; methods of instruction applicable to the various aspects of secondary school industrial arts, with use being made of micro-teaching techniques to allow students the opportunity for personal development in the general area of class control and management; safety in school workshops and laboratories, particularly in relation to teacher responsibility for adequate safety instruction and supervision. The requirements of the NSW Department of Education and the Department of Labour and Industry are examined, the aim being to develop in the students desirable attitudes and practices relating to the provision of a safe working environment in the secondary school.

The laboratory component of the course is primarily directed towards workshop/laboratory methodology applicable to junior school syllabi, with emphasis upon more advanced methodology applicable to the wood, metal, plastic and leatherwork strands of technics. The application of design and planning is emphasized and is shown to be especially applicable to Industrial Arts years 9 and 10. Aspects of the Industrial Arts-Engineering Science Syllabus are also explored.

In essence the students are involved in a problem-solving situation where both practical and intellectual skills are experienced in the context of applying these skills to programming and teaching through the junior school syllabi.

A segment known as *Applied Studies in Teaching Practice* is common to all third year curriculum and instruction subjects. A number of topics dealing with specific classroom problems, measurement and evaluation are studied.

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58.612 **Teaching Practice I**  F 10 days

A gradual introduction to teaching in the school situation.

58.613 **Teaching Practice II**  F 10 days

**Prerequisites:** 58.612, 58.622 or 58.632 or 58.642 or 58.652. **Co-requisites:** 58.623 or 58.633 or 58.643 or 58.652.

The subject provides extensive opportunities for students to develop teaching competence. Each student is placed in a high school for two weeks and works in close association with a teacher.

58.614 **Teaching Practice III**  F 20 days

**Prerequisites:** 58.613, 58.623 or 58.633 or 58.643 or 58.653.

**Co-requisites:** 58.623 or 58.634 or 58.644 or 58.654 or 58.664.

The subject provides further opportunities for students to develop teaching competence. Each student is placed in a high school for 20 days and works in close association with a teacher. At least 10 of these days must be in a block to provide experience of continuous teaching.
58.624 Industrial Arts Curriculum and Instruction III  FL2

Prerequisites: 58.603, 58.613, 58.623.

Detailed examination of planning and management of curriculum from a variety of points of view. Consideration of current views in a number of specialist areas, eg slow learners, the role of syllabus committees, equipment and materials committees, regional consultants (advisers), engineering science, current innovations in industrial arts. The aim of this experience is to assist students to formulate their own philosophy of education and develop an understanding of the implications of industrial arts in secondary schools in some depth. Detailed examination of aims and objectives of specific syllabuses is made in order that appropriate programs, and teaching methods may be developed. The laboratory program consists of a small number of major projects which add to and synthesize the students' previous experiences in the course. Both student self-evaluation and reporting techniques are constantly assessed.

58.693 Advanced Education I  FL1

Educational Psychology segment: Introduction to selected aspects of on-going research activities in Educational Psychology. The area is selected following discussions with staff members.

Sociology of Education segment: More detailed and extensive examination of central topics studied in the pass strand. Consideration of selected social theory issues, the nature of the sociological enterprise and sociological methods. A research project.

58.694 Advanced Education II  S1 L2 S2 L1

Research in Education segment: The student is familiarized with research methodology to enable him or her to intelligently read and assess educational research reports. Aspects include descriptive and inferential research and cover sampling, measurement, design, statistical analysis, statistical probability and interpretation of results. Emphasis on interpretation of results rather than on numerical skill in analysing data. Other topics include the nature of explanation, philosophy of probability theory, cause and effect, generalization, selection and identification of research areas, ethical issues in research procedures.

Philosophy of Education segment: Some connected issues in social and political philosophy, and their implications for educational theory and practice. Issues include: freedom, compulsion and the aims of education; neutrality of education systems, schools, teachers and courses; and justice and equality.

58.699 Thesis
Financial Assistance to Students

The scholarships and prizes listed below are available to students whose courses appear in this handbook. Each faculty handbook contains in its Financial Assistance to Students section the scholarships and prizes available within that faculty. The General Information section of the Calendar contains a comprehensive list of scholarships and prizes offered throughout the University.

Scholarships

Undergraduate Scholarships

As well as the assistance mentioned earlier in this Handbook (see General Information: Financial Assistance to Students) there are a number of scholarships available to students. What follows is an outline only. Full information may be obtained from the Student Records, Higher Degrees and Scholarships Section, 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.

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<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
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<tbody>
<tr>
<td>Bursary Endowment Board*</td>
<td>$150 pa</td>
<td>Minimum period of approved degree/combined degree course</td>
<td>Merit in HSC and total family income not exceeding $4000.</td>
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*Apply to The Secretary, Bursary Endowment Board, PO Box 460, North Sydney 2060 immediately after sitting for HSC.
### Undergraduate Scholarships (continued)

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<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
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<tr>
<td><strong>General (continued)</strong></td>
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<tr>
<td>Sam Cracknell Memorial</td>
<td>Up to $3000 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>Girls' Realm Guild</td>
<td>Up to $1500 pa</td>
<td>1 year renewable</td>
<td>Available only to female students under 35 years of age enrolling in any year of a full-time undergraduate course on the basis of academic merit and financial need.</td>
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</table>

### Graduate Scholarships

Application forms and further information are available from the Student Records, Higher Degrees and Scholarships Section, located on the Ground Floor of the Chancellery. This unit provides information on additional scholarships which may become available from time to time, mainly from funds provided by organizations sponsoring research projects.

### General

| University of New South Wales Research Awards | Living allowance of $4200 pa. Other allowances may also be paid. | 1-2 years for a Masters and 3-4 years for a PhD degree | Applicants must be honours graduates (or equivalent). Applications to Registrar by 31 October (30 November in special circumstances). |
## Graduate Scholarships (continued)

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General (continued)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commonwealth Postgraduate Research Awards</td>
<td></td>
<td>1-2 years for a Masters and 3-4 years for a PhD degree</td>
<td>Applicants must be honours graduates (or equivalent) who will graduate with honours in current academic year, and who are domiciled in Australia.</td>
</tr>
<tr>
<td>Commonwealth Postgraduate Course Awards</td>
<td>Living allowance of $4200 pa. Other allowances may also be paid.</td>
<td>1-2 years; minimum duration of course</td>
<td>Preference is given to applicants with employment experience. Applicants must be graduates or scholars who will graduate in current academic year and who are permanent residents of Australia, and who have not previously held a Commonwealth Postgraduate Award. Applications to Registrar by 30 September (in special circumstances applications will be accepted 30 November).</td>
</tr>
<tr>
<td>Australian American Educational Foundation Travel Grant*</td>
<td></td>
<td></td>
<td>Applicants must be graduates, senior scholars or post-doctoral Fellows. Applications close 30 September.</td>
</tr>
<tr>
<td>Australian Federation of University Women</td>
<td>Amount varies depending on award</td>
<td>Up to 1 year</td>
<td>Applicants must be female graduates who are members of the Australian Federation of University Women.</td>
</tr>
<tr>
<td>The British Council Academic Links and Interchange Scheme†</td>
<td>Cost of travel to UK</td>
<td></td>
<td>Applicants must be either senior or junior academic staff. Preference will be given to activities likely to lead to further collaboration through joint research, publication, and/or teaching programs. Applications may be made at any time and should be submitted to Registrar.</td>
</tr>
<tr>
<td>The Caltex Woman Graduate of the Year</td>
<td>$5000 pa for further studies in USA, UK, Northern Europe or in special cases Australia. There are no special allowances for travel or accommodation for married graduates.</td>
<td>2 years</td>
<td>Applicants must be female graduates who have completed a University degree or diploma this year and who are Australian citizens or have resided in Australia for at least seven years. Selection is based on scholastic and literary achievements, demonstrable qualities of character, and accomplishments in cultural and/or sporting/recreational activities.</td>
</tr>
</tbody>
</table>

*Application forms are available from: The Secretary, Department of Education, AAEF Travel Grants, PO Box 826, Woden, ACT 2606.

†Application forms available from The British Council, PO Box 88, Edgecliff, NSW 2077.
<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>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 Commonwealth citizens or British Protected Persons, and who are not older than 35 years of age. Applications close with Registrar by 1 October.</td>
</tr>
<tr>
<td>Sam Cracknell Memorial</td>
<td>Up to $3000 pa</td>
<td></td>
<td>See above under Undergraduate Scholarships, General</td>
</tr>
<tr>
<td>The English-Speaking Union (NSW Branch)</td>
<td>$500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gowrie Graduate Research</td>
<td>Maximum $2000 pa in Australia, and $2750 if tenable overseas</td>
<td>2 years</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>Between 12 to 21 months</td>
<td>Candidates must be either: 1. Members of the Australian or a State Public Service or semi-government Authority 2. Staff or graduate students at an Australian university. 3. Individuals recommended for nomination by the Local Correspondents. The candidate will usually have an honours degree or equivalent, or an outstanding record of achievement, and be not more than 36 years of age. Applications close July.</td>
</tr>
<tr>
<td>Frank Knox Memorial Fellowships at Harvard University</td>
<td>Stipend of $4000 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.</td>
</tr>
<tr>
<td>Nuffield Foundation Commonwealth Travelling Fellowships†</td>
<td>Living and travel allowances</td>
<td>1 year</td>
<td>Australian citizens usually between 25 and 35 who are graduates preferably with higher degrees and who have at least a year’s teaching or research experience at a university. Applications close by February.</td>
</tr>
</tbody>
</table>

*Application forms must be obtained from the Australian representative of the Fund, Mr L. T. Hinde, Reserve Bank of Australia, Box 3947, GPO, Sydney, NSW 2001. These must be submitted to the Registrar by 24 July.
†Applications to the Secretary, The Nuffield Foundation Australian Advisory Committee, PO Box 783, Canberra City 2601.
### Graduate Scholarships (continued)

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General (continued)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Rhodes Scholarship**</td>
<td>Approximately £4000 stg pa</td>
<td>2 years, may be extended for a third year</td>
<td>Unmarried male and female Australian citizens, between the ages 19 and 25 who have been domiciled in Australia at least 5 years and have completed at least 2 years of an approved university course. Applications close in early September each year.</td>
</tr>
<tr>
<td>Rothmans Fellowships Award‡</td>
<td>$14000 pa</td>
<td>1 year, renewable up to 3 years</td>
<td>The field of study is unrestricted. Applications close early September each year.</td>
</tr>
</tbody>
</table>

### Architecture

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Associated Hardware Manufacturers Scholarship</td>
<td>Up to $1500 pa</td>
<td>1 year. Where a recipient is enrolled in a higher degree program and is making satisfactory progress the scholarship may be extended subject to the availability of funds.</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>The Master Builders' Association of NSW</td>
<td>$500 ($250 at commencement of each year)</td>
<td>2 years</td>
<td>Applicants must be graduates who have enrolled in the Master of Science (Building) 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.</td>
</tr>
<tr>
<td>The Lindsay Robertson Memorial Travel Award</td>
<td>A maximum of $1000</td>
<td>1 year</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 overseas University or other approved overseas institution. Applications close 30 May.</td>
</tr>
<tr>
<td>Wormald International Scholarship</td>
<td>$4500 pa</td>
<td>1 year</td>
<td>Applicants must be honours Architecture graduates of the University of New South Wales.</td>
</tr>
<tr>
<td>Byera Hadley Travelling Scholarship***</td>
<td>Varies year to year</td>
<td>Not more than 3 years</td>
<td>Awarded to outstanding graduate 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. Graduate must be an Australian citizen and award is eligible up to 3 years from graduation.</td>
</tr>
</tbody>
</table>

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**Applications to Mr H McCredie, Secretary of the NSW Committee, University of Sydney, NSW 2006**

‡Applications to The Secretary, Rothmans University Endowment Fund, University of Sydney, NSW 2006

***Applications to the Registrar, Board of Architects of New South Wales, 196 Miller Street, North Sydney 2060, not later than 31 March each year.
# Prizes

## Undergraduate University Prizes

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value ($)</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sydney Technical College Union Award</td>
<td>50.00</td>
<td>Leadership in the development of student affairs, and academic proficiency throughout the course.</td>
</tr>
<tr>
<td>University of New South Wales Alumni Association</td>
<td></td>
<td>Achievement for community benefit—students in their final or graduating year.</td>
</tr>
<tr>
<td><strong>School of Architecture</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Board of Architects of New South Wales</td>
<td>100.00</td>
<td>An outstanding graduand in the School of Architecture.</td>
</tr>
<tr>
<td>Byrne &amp; Davidson Roll-A-Door</td>
<td>100.00</td>
<td>11.121 History of Architecture I.</td>
</tr>
<tr>
<td>Chamber of Manufactures of New South Wales</td>
<td>15.00</td>
<td>Subject selected by Head of School.</td>
</tr>
<tr>
<td>Frank Fox</td>
<td>100.00</td>
<td>11.8511, 11.8521 or 11.8522 Historical Research.</td>
</tr>
<tr>
<td>James Hardie &amp; Co Pty Ltd</td>
<td>100.00</td>
<td>General proficiency throughout the Bachelor of Architecture degree course.</td>
</tr>
<tr>
<td>Frank W. Peplow</td>
<td>24.00</td>
<td>Church Architecture.</td>
</tr>
<tr>
<td>Royal Australian Institute of Architects</td>
<td>100.00</td>
<td>Architectural Design and allied subjects in last two years of Bachelor of Architecture degree course.</td>
</tr>
<tr>
<td><strong>School of Building</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Byrne &amp; Davidson Roll-A-Door</td>
<td>200.00</td>
<td>Bachelor of Building degree course, Year 3.</td>
</tr>
<tr>
<td>James Hardie &amp; Co Pty Ltd</td>
<td>50.00</td>
<td>Bachelor of Building degree course, Year 1.</td>
</tr>
<tr>
<td>Master Builders’ Association of New South Wales</td>
<td>200.00</td>
<td>Merit performance in the Bachelor of Building degree course.</td>
</tr>
<tr>
<td><strong>School of Town Planning</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The NSW Planning and Environment Commission</td>
<td>150.00</td>
<td>Bachelor of Town Planning degree course, Year 5.</td>
</tr>
<tr>
<td>Royal Aust Planning Institute, NSW Division</td>
<td>150.00</td>
<td>Bachelor of Town Planning degree course, Year 3.</td>
</tr>
<tr>
<td>John Shaw Memorial</td>
<td>100.00</td>
<td>Best result in Thesis in the Bachelor of Town Planning degree course.</td>
</tr>
</tbody>
</table>
### Graduate University Prizes

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td>School of Building</td>
<td>105.00</td>
<td>Master of Science (Building)—Distinguished graduate.</td>
</tr>
</tbody>
</table>

Alex Rigby
Staff

Comprises Schools of Architecture, Building; Department of Industrial Arts; Schools of Landscape Architecture, Town Planning; and Graduate School of the Built Environment.

Dean
Professor G. E. Roberts

Chairman
Professor E. C. Daniels

Executive Assistant
P. A. Johnson

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

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John Christopher Haskell, DipTP Lond., MArch Natal, Rome Scholar, FRSA

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Richard Eric Apperly, BArch Syd., MArch N.S.W.
Laszlo Peter Kollar, MArch PhD N.S.W., ASTC, FRAIA
Peter Thomas Oppenheim, BArch Cape T., MArch PhD N.S.W. ARIBA

Administrative Officer
Randall Watkins, DipTech N.S.W. I.T.

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Sidney Charles Palmer, BArch Syd., MArch N.S.W., FRAIA, FIArbA
Richard Patrick Parlour, BSc Lond., PhD N.S.W., DipEng Lough.
Arthur Edgcombe Rupert Purkis, MArch N.S.W., FRAIA, ARIBA
Peter Leggett Reynolds, BArch PhD N.S.W.
Nancy Claire Rodgers, BArch N.Z., MBdgSc Syd., FIES, ANZIA, ARAIA
Clive William Stevens, MArch N.S.W., MSc Sur., DipTCP Syd., ASTC
Barry Vivian Wollaston, BArch Syd., MArch N.S.W., FRAIA

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Victor Martin Berk, BArch DipAdmin N.S.W.
Robert John Bryant, BArch N.S.W., MTCP Syd., ASTC,
DipEnvStud Macq., MRAPI, ARAIA
Geoffrey Lindsay Dwyer, FRAIA
Richard Grantley Pitzhardinge, DipArch Kingston on Thames Poly., MArch Calif., ARIBA, ARAIA
John Barrie Fraser, DipArt(Ed)
Peter Hale, BArch N.S.W., ARAIA
Richard Hough, BSc BE N’cle.(N.S.W.), MEng Tor., MIEAust
Geoffrey Kenneth Le Sueur, BArch GradDip N.S.W.
Nicholas Marinov, DipArch Prague, ARAIA
Peter Reginald Proudfoot, BArch Syd., MArch Penn., PhD N.S.W., Rome Scholar
Vinzenz Franz-Josef Sedlak, DiplArch T.U. Graz, MPhil Sur.
Harry Anthony Stephens, BArch DipLD N.S.W., ARAIA
Kwong Hon Tang, BArch H.K., MArch Melb., ARIBA, ARAIA
Brian Woodward, DipLArch Oxf.

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Elizabeth Ann Howard, BArch Syd., BA Macq.
Paul Edward Walsh, BArch N.S.W.

Tutors
Desley Olwyn Luscombe, BSc(Arch) BArch N.S.W.
Michael Charles Tawa, BArch N.S.W.

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David Nevil Hume Hassall, BE MBdgSc Syd., MIEAust
John Malcolm Hutcheson, MC, BE Syd., BCom Qld., MBA PhD N.S.W., FIEAust, FID, FiArbA, AAAQ, LGE, AASA(Snr), AFAIM, AAIB, ACIS
Graham Edward Levido, BBuild MSc(Building) N.S.W., AAIB
James Francis Mooney, MBuild N.S.W., ASTC, FIQSA, FIArbA

Lecturers
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Bruce Hedford Hawkins, BE W.Aust.
Martin Marosszeky, BE N‘cle.(N.S.W.), MEngSc N.S.W., MIEAust
Clyde Donald Smythe, MBuild N.S.W., ASTC, AAIB
Thomas Edward Uher, BBuild MSc(Building) N.S.W., AAIB

Tutor
Margret J. Döring, BE Melb., ARMIT, LIAB

Department of Industrial Arts

Senior Lecturer and Acting Head of Department
William Richard Lawson, BSc PhD N.S.W., MAPsS, MAIHR

Lecturers
Donald McArthur Godden, MSc N.S.W.
John Kyle Redmond, MA R.C.A., BA C.S.A.D., PRSA, AIDIA

School of Landscape Architecture

Professor of Landscape Architecture
Vacant

Associate Professor and Acting Head of School
Finn Christopher Thorvaldson, BArch N.S.W., MLA Mich., ARAIA, AAILA

Lecturers
Helen Beatrice Armstrong, BSc Syd., GradDip N.S.W.
Sydney Allison Bagg, MArch DipLD N.S.W., ASTC, FRAIA, AAILA, ARIBA
Douglas Crawford, BArch Melb., GradDip N.S.W.
Donald Guy Sigsby, MLA Mich., AAILA
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, MA Oxf., BArch Liv., DipTP Lond., FRAPI, MRTPi, ARISA, ARAIA

Senior Lecturers
Douglas Robert Daines, DipTCP Syd., MTP N.S.W., MRAPI, AAIV
James Leslie King, BArch MTCP Syd., FRAPI
Zula Nittim, BArch Melb., DipCD PhD N.S.W., FRAIA, MRAPI

Lecturers
Stephen Harris, BTP N.S.W., MRAPI
Neville Thomas Schaefer, BA N.E., PhD N.S.W.

Graduate School of the Built Environment

Professor of Architecture and Head of School
John Maxwell Freeland, DFC, MArch DTRP Melb., MArch DLitt N.S.W., LFRAIA, FRSA

Associate Professors
Anita Barbara Lawrence, MArch N.S.W., FRAIA, MAAS
Kenneth James Wyatt, BE Qld., MBdgSc Syd., MIEAust

Senior Lecturer
Robert Charles Lewis Irving, MArch N.S.W., ARMTG, FRAIA
The University of New South Wales

Kensington Campus 1981

Theatres

Biomedical Theatres E27
Central Lecture Block E19
Classroom Block (Western Grounds) H3
Electrical Engineering Theatre F17
Keith Burrows Theatre J14
Main Building Theatre K14
Mathews Theatres D23
Parade Theatre E3
Science Theatre F13
Sir John Clancy Auditorium C24

Buildings

Affiliated Residential Colleges

New (Anglican) L6
Shalom (Jewish) N9
Warrane (Roman Catholic) M7
Applied Science F10
Architecture H14
Arts (Morven Brown) C20
Banks F22
Barker Street Gatehouse N11
Basser College C18
Biological Sciences D26
Central Store B13
Chancellery C22
Chemistry
Dalton F12
Robert Heffron E12
Child Care Centre (Off-campus) O14
Civil Engineering H20
Commerce (John Goodsell) F20
Dalton (Chemistry) F12
Electrical Engineering G17
Geography and Surveying K17
Goldstein College D16
Golf House A27
Gymnasium B5
House at Pooh Corner N8
International House C6
John Goodsell (Commerce) F20
Kensington Colleges C17
Basser C18
Goldstein D16
Philip Baxter D14

Main Building K15
Maintenance Workshop B13
Maths F23
Mechanical and Industrial Engineering J17
Medical (Administration) B27
Menzies Library E21
Metallurgy E8
Morven Brown (Arts) C20
New College (Anglican) L6
Newton J12
Parking Station H25
Philip Baxter College D14
Robert Heffron (Chemistry) E12
Sam Cracknell Pavilion H8
Shalom College (Jewish) N9
Sir Robert Webster (Textile Technology) G14
Squash Courts B7
Swimming Pool B4
Unisearch House L5
University Regiment J2
University Union (Roundhouse) — Stage I E6
University Union (Blockhouse) — Stage II G6
University Union (Squarehouse) — Stage III E4
Wallace Wurth School of Medicine C27
Warrane College (Roman Catholic) M7
Wool and Pastoral Sciences B8

General

Accountancy F20
Admissions Office C22
Anatomy C27
Applied Geology F10
Applied Science (Faculty Office) F10
Appointments Office C22
Architecture (including Faculty Office) H14
Arts (Faculty Office) C20
Australian Graduate School of Management G27
Biochemistry D26
Biological Sciences (Faculty Office) D26

Biomedical Library F23
Biotechnology D26
Bookshop G17
Botany D26
Building H14
Cashier's Office C22
Centre for Medical Education Research and Development C27
Chaplains E15a
Chemical Engineering and Industrial Chemistry F10
Chemistry E12
Child Care Centre N8
Civil Engineering H20
Closed Circuit Television Centre F20
Commerce (Faculty Office) F20
Committee in Postgraduate Medical Education B27
Community Medicine D26
Computing Services Unit E21
Drama D9
Economics F20
Education G2
Electrical Engineering and Computer Science G17
Engineering (Faculty Office) K17
English C20
Examinations and Student Records C22
Fees Office C22
Food Technology F10
French C20
General Studies C20
Geography K17
German Studies C20
Graduate School of the Built Environment H14
Health Administration C22
History C20
History and Philosophy of Science C20
Industrial Arts C1
Industrial Engineering J17
Institute of Languages G14
Institute of Rural Technology B8b
Kindergarten (House at Pooh Corner/Child Care Centre) N8
Landscape Architecture H14
Law (Faculty Office) E21
Law Library E21
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 C15
Nuclear Engineering G17
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
Postgraduate Extension Studies (Closed Circuit Television) F20
Postgraduate Extension Studies (Radio Station and Administration) F23
Psychology F23
Public Affairs Unit C22
Regional Teacher Training Centre C27
Russian C20
Science and Mathematics Course Office F23
Social Work G2
Sociology C20
Spanish and Latin American Studies C20
Student Amenities and Recreation E15c
Student Counselling and Research E15c
Student Employment C22
Student Health E15b
Students' Union E4
Surveying K17
Teachers' College Liaison Office F15b
Tertiary Education Research Centre E15d
Textile Technology G14
Town Planning K15
University Union (Blockhouse) G6
Wool and Pastoral Sciences B8a
Zoology D26
This Handbook has been specially designed as a source of reference for you and will prove useful for consultation throughout the year.

For fuller details about the University – its organization, staff membership, description of disciplines, scholarships, prizes, and so on, you should consult the Calendar.

The Calendar and Handbooks also contain a summary list of higher degrees as well as the conditions for their award applicable to each volume.

For detailed information about courses, subjects and requirements of a particular faculty you should consult the relevant Faculty Handbook.

Separate Handbooks are published for the Faculties of Applied Science, Architecture, Arts, Commerce, Engineering, Law, Medicine, Professional Studies, Science (including Biological Sciences and the Board of Studies in Science and Mathematics), the Australian Graduate School of Management (AGSM) and the Board of Studies in General Education.

The Calendar and Handbooks are available from the Cashier’s Office. The Calendar costs $3.50 (plus postage and packing, 90 cents). The Handbooks vary in cost. Applied Science, Arts, Commerce, Engineering and Sciences are $2.50. Architecture, Law, Medicine, Professional Studies and AGSM are $1.50. Postage is 80c in each case, or $1.20 ($3.00 interstate) for a complete set of books. The exception is General Studies, which is free (80 cents postage).