How to use this Handbook

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

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

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

**Faculty Information.**

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

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

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

**Graduate Study** is about higher degrees.

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

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

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

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

**Staff list.**

For detailed reference, see the list of Contents.
Architecture

1987

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

PO Box 1, Kensington
New South Wales, Australia 2033

Telephone: (02) 697 2222
Telegraph: UNITECH, SYDNEY
Telex AA26054
Subjects, courses and any arrangements for courses including staff allocated, as stated in the Calendar or any Handbook or any other publication, announcement or advice of the University, are an expression of intent only and are not to be taken as a firm offer or undertaking. The University reserves the right to discontinue or vary such subjects, courses, arrangements or staff allocations at any time without notice.

Information in this Handbook has been brought up to date as at 8 September 1986, but may be amended without notice by the University Council.

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School of Building

1140 Doctor of Philosophy (PhD) 83
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8110 Master of Science (Building) (MSc(Building)) 83

School of Landscape Architecture

1160 Doctor of Philosophy (PhD) 84
2220 Master of Landscape Architecture (MLArch) 84

School of Town Planning

1150 Doctor of Philosophy (PhD) 84
2230 Master of Town Planning (by Research) (MTP) 84
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Graduate Study: Subject Descriptions

Identification of Subjects by Number

Physics

Architecture

Building

Town Planning

Graduate School of the Built Environment

Graduate Study: Conditions for the Award of Higher Degrees

Doctor of Philosophy

Master of Architectural Design

Master of Architecture, Master of Building, Master of the Built Environment, Master of Landscape Architecture and Master of Town Planning
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### Staff

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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.

Note: All phone numbers below are University extension numbers. If you are outside the University, dial 697 2222 and ask for the extension. Alternatively you may dial 697 and then the extension number. This prefix should only be used when you are certain of the extension that you require as callers using 697 cannot be transferred to any other number.

Some people who can help you

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

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

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

The Assistant Registrar (Undergraduate Office), Mr John Beauchamp, is located on the ground floor of the Chancellery. General inquiries should be directed to 3095.

The Senior Administrative Officer (Examinations), Mr John Grigg, is located on the ground floor of the Chancellery. Enquiries regarding examinations, including examination timetables and clash of examinations should be directed to 3088.

The Adviser for Prospective Students, Mrs Fay Lindsay, is located with the Careers and Employment Section and is
available for personal interview. For an appointment phone 5434.

The Careers and Employment Section is located in Hut E15c at the foot of Basser Steps. Enquiries should be directed to 5430.

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

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

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Session</th>
<th>Dates</th>
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</thead>
<tbody>
<tr>
<td>Session 1</td>
<td>2 March to 10 May</td>
</tr>
<tr>
<td>(14 weeks)</td>
<td>May Recess: 11 May to 17 May</td>
</tr>
<tr>
<td></td>
<td>18 May to 14 June</td>
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<tr>
<td></td>
<td>Study Recess: 15 June to 21 June</td>
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<tr>
<td></td>
<td>Midyear Recess: 22 June to 26 July</td>
</tr>
<tr>
<td>Examinations</td>
<td>22 June to 8 July</td>
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<tr>
<td>Session 2</td>
<td>27 July to 23 August</td>
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<tr>
<td>(14 weeks)</td>
<td>August Recess: 24 August to 30 August</td>
</tr>
<tr>
<td></td>
<td>31 August to 8 November</td>
</tr>
<tr>
<td></td>
<td>Study Recess: 9 November to 15 November</td>
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<tr>
<td>Examinations</td>
<td>16 November to 4 December</td>
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**Faculty of Medicine**

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<thead>
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<th>Session</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Term 1 (10 weeks)</td>
<td>19 January to 29 March</td>
</tr>
<tr>
<td></td>
<td>May Recess: 11 May to 17 May</td>
</tr>
<tr>
<td></td>
<td>18 May to 14 June</td>
</tr>
<tr>
<td>Term 2 (9 weeks)</td>
<td>6 April to 10 May</td>
</tr>
<tr>
<td></td>
<td>August Recess: 24 August to 30 August</td>
</tr>
<tr>
<td>Term 3 (9 weeks)</td>
<td>22 June to 23 August</td>
</tr>
<tr>
<td></td>
<td>31 August to 8 November</td>
</tr>
<tr>
<td>Term 4 (10 weeks)</td>
<td>31 August to 8 November</td>
</tr>
<tr>
<td></td>
<td>19 January to 15 March</td>
</tr>
<tr>
<td>Term 2 (8 weeks)</td>
<td>23 March to 17 May</td>
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<tr>
<td>Term 3 (8 weeks)</td>
<td>25 May to 19 July</td>
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<tr>
<td>Term 4 (8 weeks)</td>
<td>27 July to 20 September</td>
</tr>
<tr>
<td>Term 5 (8 weeks)</td>
<td>28 September to 22 November</td>
</tr>
</tbody>
</table>

**Australian Graduate School of Management**

<table>
<thead>
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<th>Session</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term 1 (10 weeks)</td>
<td>2 March to 8 May</td>
</tr>
<tr>
<td>Term 2 (10 weeks)</td>
<td>1 June to 7 August</td>
</tr>
<tr>
<td>Term 3 (10 weeks)</td>
<td>31 August to 7 November</td>
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</table>

**University College/Australian Defence Force Academy**

<table>
<thead>
<tr>
<th>Session</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 1 (14 weeks)</td>
<td>2 March to 3 May</td>
</tr>
<tr>
<td></td>
<td>May Recess: 4 May to 17 May</td>
</tr>
<tr>
<td></td>
<td>18 May to 19 June</td>
</tr>
<tr>
<td></td>
<td>Midyear Recess: 20 June to 12 July</td>
</tr>
<tr>
<td>Examinations</td>
<td>22 June to 10 July</td>
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</table>
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**Session 2**
(13 weeks)

**Examinations**
26 October to 13 November

**January**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thursday 1</td>
<td>Public Holiday — New Year's Day</td>
</tr>
<tr>
<td>Monday 5</td>
<td>List of graduands in Medicine for February Graduation Ceremony published in <em>The Sydney Morning Herald</em></td>
</tr>
<tr>
<td>Friday 9</td>
<td>Last day for acceptance of applications by office of the Admissions Section for transfer to another undergraduate course within the University</td>
</tr>
<tr>
<td>Monday 12</td>
<td>Last day for applications for review of results of assessment</td>
</tr>
<tr>
<td>Monday 26</td>
<td>Public Holiday — Australia Day</td>
</tr>
</tbody>
</table>

**February**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday 2</td>
<td>Enrolment period begins for second and later year undergraduate students and graduate students enrolled in formal courses</td>
</tr>
<tr>
<td>Tuesday 3</td>
<td>Enrolment period begins for new undergraduate students and undergraduate students repeating first year</td>
</tr>
<tr>
<td>Tuesday 24</td>
<td>Last day for undergraduate students who have completed requirements for pass degrees to advise the Registrar they are proceeding to an honours degree or do not wish to take out the degree for which they have applied for any other reason</td>
</tr>
</tbody>
</table>

**March**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday 2</td>
<td><strong>Session 1 begins</strong> — all courses except Medicine III, IV and V</td>
</tr>
<tr>
<td>Wednesday 4</td>
<td>List of graduands for April/May ceremonies and 1984 prizewinners published in <em>The Sydney Morning Herald</em></td>
</tr>
<tr>
<td>Monday 9</td>
<td>Last day for notification of correction of details published in <em>The Sydney Morning Herald</em> on 4 March concerning April/May graduation ceremonies</td>
</tr>
<tr>
<td>Friday 13</td>
<td>Last day for acceptance of enrolment by new undergraduate students and re-enrolling undergraduate students (late fee payable thereafter)</td>
</tr>
</tbody>
</table>

**April**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>Thursday 16</td>
<td>Last day for undergraduate students to discontinue without failure subjects which extend over Session 1 only</td>
</tr>
<tr>
<td>Friday 17</td>
<td>Good Friday — Public Holiday</td>
</tr>
<tr>
<td>Saturday 18</td>
<td>Easter Saturday — Public Holiday</td>
</tr>
<tr>
<td>Monday 20</td>
<td>Easter Monday — Public Holiday</td>
</tr>
<tr>
<td>Saturday 25</td>
<td>Anzac Day — Public Holiday</td>
</tr>
<tr>
<td>Wednesday 29</td>
<td>Confirmation of Enrolment forms dispatched to all students</td>
</tr>
</tbody>
</table>

**May**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>Friday 8</td>
<td>Last day for acceptance of corrected Confirmation of Enrolment forms</td>
</tr>
<tr>
<td>Monday 11</td>
<td><strong>May Recess begins</strong></td>
</tr>
<tr>
<td>Wednesday 13</td>
<td>Last day for undergraduate students completing requirements for degrees at the end of Session 1 to submit Application for Admission to Degree forms</td>
</tr>
<tr>
<td>Thursday 14</td>
<td>Publication of provisional timetable for June/July examinations</td>
</tr>
</tbody>
</table>

**June**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday 17</td>
<td><strong>May Recess ends</strong></td>
</tr>
<tr>
<td>Friday 22</td>
<td>Last day for students to advise of examination clashes</td>
</tr>
</tbody>
</table>

**July**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday 8</td>
<td>Examinations end</td>
</tr>
<tr>
<td>Monday 20</td>
<td>Assessment results mailed to students</td>
</tr>
</tbody>
</table>

**April**

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**June**

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<th>Event</th>
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</thead>
<tbody>
<tr>
<td>Wednesday 8</td>
<td>Examinations end</td>
</tr>
<tr>
<td>Monday 20</td>
<td>Assessment results mailed to students</td>
</tr>
</tbody>
</table>
Calendar

Tuesday 21  Assessment results displayed on University noticeboards

To Friday 24 July: Students to amend enrolment programs following receipt of June examination results

Sunday 26

Monday 27

Midyear Recess ends

August

Friday 7

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

Monday 24

August Recess begins

Tuesday 25

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

Sunday 30

August Recess ends

September

Wednesday 2

List of graduands for October graduation ceremonies published in The Sydney Morning Herald

Monday 7

Last day for notification of correction of details published in The Sydney Morning Herald on 2 September concerning October graduation ceremonies

Friday 18

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

Monday 28

Confirmation of Enrolment forms despatched to all students

Tuesday 29

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

October

Monday 5

Eight Hour Day — Public Holiday

Wednesday 7

Last day for acceptance of corrected Confirmation of Enrolment forms

Thursday 8

Publication of provisional examination timetable

Friday 9

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

Friday 16

Last day for students to advise of examination timetable clashes

Thursday 29

Publication of timetable for November examinations.

November

Sunday 8

Session 2 begins

Monday 9

Study Recess begins

Sunday 15

Study Recess ends

Monday 16

Examinations begin

December

Friday 4

Examinations end

Monday 21

Assessment results mailed to students

Tuesday 22

Assessment results displayed on University noticeboards

Friday 25

Christmas Day — Public Holiday

Monday 28

Boxing Day — Public Holiday

1988

Faculties other than Medicine

Session 1

(14 weeks)

7 March to 15 May

May Recess: 16 May to 22 May

23 May to 19 June

Study Recess: 20 June to 26 June

Midyear Recess: 27 June to 31 July

Examinations

27 June to 13 July

Session 2

(14 weeks)

1 August to 28 August

August Recess: 29 August to 4 September

5 September to 13 November

Study Recess: 14 November to 20 November

Examinations

21 November to 9 December
Faculty of Medicine

First and Second Years
As for other faculties

Third and Fourth Years
Term 1 (10 weeks) 25 January to 3 April
Term 2 (9 weeks) 11 April to 15 May
May Recess: 16 May to 22 May
23 May to 19 June
Term 3 (9 weeks) 27 June to 28 August
August Recess: 29 August to 4 September
Term 4 (10 weeks) 5 September to 13 November

Fifth Year
Term 1 (8 weeks) 25 January to 20 March
Term 2 (8 weeks) 28 March to 22 May
Term 3 (8 weeks) 30 May to 24 July
Term 4 (8 weeks) 1 August to 25 September
Term 5 (8 weeks) 5 October to 27 November

University College/Australian Defence Force Academy

Session 1 (14 weeks)
Session 1
7 March to 8 May
May Recess: 9 May to 22 May
23 May to 24 June
Midyear Recess: 25 June to 17 July
Examinations
27 June to 15 July
Session 2 (13 weeks)
Session 2
18 July to 28 August
August Recess: 29 August to 11 September
12 September to 28 October
Examinations
31 October to 18 November

Australian Graduate School of Management

Term 1 (10 weeks) 7 March to 13 May
Term 2 (10 weeks) 6 June to 12 August
Term 3 (10 weeks) 5 September to 11 November

January
Friday 1
Public Holiday (New Year)
Friday 8
Last day for acceptance of applications by office of the Admissions Section for transfer to another undergraduate course within the University
Monday 11
Last day for applications for review of results of annual examinations
Tuesday 26
Australia Day — Public Holiday

February
Monday 1
Enrolment period begins for second and later year undergraduate students and graduate students enrolled in formal courses

March
Monday 7
Session 1 begins — all courses except Medicine III, IV and V

April
Friday 1 to Monday 4
Easter—Public Holiday
Monday 25
Anzac Day — Public Holiday

Organization of the University

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

In 1986 the University had 18,950 students and over 4,050 staff who worked in more than eighty buildings.

Arms of the University of New South Wales

The arms of the University are reproduced on the front cover of this handbook. The arms were granted by the College of Her-alds in London, on 3 March 1952, and the heraldic description is as follows:

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

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

The University Colours

The colours of the University are black and gold.

The Council

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

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

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

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

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

The Faculties/Boards of Studies

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

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

The ten faculties are Applied Science, Architecture, Arts, Biological Sciences, Commerce, Engineering, Law, Medicine, Professional Studies and Science. In addition, the Board of Studies of the Australian Graduate School of Management (AGSM), the Board of Studies in General Education and the Academic Board of the University College, Australian Defence Force Academy fulfill 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 undergraduate courses offered by the Faculties of Biological Science and Science.

The Schools

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

Executive Officers

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

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

General Administration

The administrative work of the University is divided between the Deputy Principal (Administration) who is responsible for registrarial, property and staffing matters and the Deputy Principal (Planning and Information) who is responsible for planning information and analysis, finance and the provision of computing services.

Student Representation on Council and Faculties/Boards

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

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

Open Faculty/Board Meetings

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

Award of the University Medal

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

Identification of Subjects by Numbers

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

Textbook Lists

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

Textbook Costs and Course-Related Costs

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

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

Co-operative Bookshop

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

General Studies Program

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

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 423 men and women students, as well as tutorial and administrative staff members. College life is maintained in an atmosphere which emphasises co-operation, academic purpose and mutual respect. Apply in writing to the Master, New College, Anzac Parade, Kensington, NSW 2033.

International House
International House accommodates 154 male or female students from Australia and up to thirty other countries. Generally about 30 disciplines are represented. College life is multicultural and multidisciplinary. Eight tutors are available to help students. Apply in writing to the Warden, International House, PO Box 1, Kensington, NSW 2033.

New College
New College is an Anglican college and it provides accommodation (with all meals) for 210 graduates and undergraduates, without regard to race, religion, or sex. The College, which has its own resident tutors and a Senior Resident Academic Fellow, sponsors a wide range of activities for staff and students of the University and encourages inter-disciplinary discussion. Apply to the Master, New College, Anzac Parade, Kensington 2033 (telephone 662 6066).

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

Warrane College
Warrane College offers accommodation for 180 men of all ages, backgrounds and beliefs. Excellent study conditions and a comprehensive tutorial program are features of College life. These are set in the context of a wide range of cultural, social, spiritual and sporting activities in a friendly and open atmosphere. Non-resident membership of the College is available. Opus Dei, a prelature of the Catholic Church, is responsible for the spiritual care of the College. Enquiries: The Master, Warrane College, PO Box 123 Kensington 2033. Telephone (02) 662 6199.

Creston Residence
Creston Residence offers accommodation to 25 undergraduate and graduate women students. Activities and tutorials are open to non-resident students. The activities of a spiritual nature are entrusted to Opus Dei, a personal prelature of the Catholic Church. Enquiries: 36 High Street, Randwick 2031. Telephone (02) 398 5693.

Other Accommodation

Off-campus Accommodation
Students requiring other than College accommodation may seek assistance in Room G19, the Chancellery, in obtaining suitable accommodation in the way of rooms with cooking facilities, flats, houses, share flats, etc. Extensive listings of all varieties of housing are kept up-to-date throughout the year and during vacations. Accommodation in the immediate vicinity of the University is not usually easy to find at short notice, and is expensive. No appointment is necessary but there may be some delay in February and March. The Housing staff are always happy to discuss any aspect of accommodation.

Associations, Clubs and Societies

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

The Association office is situated in the Link Building, B6, lower campus, and can be contacted on extension 4880. The control of the Association is vested in the General Committee which includes delegates from all the clubs.

Membership is compulsory for all registered students, and the annual fee is as set out later, in Rules and Procedures, Enrolment Procedures and Fees Schedules, section 15. Fees. Membership is also open to all members of staff and graduates of the University on payment of a 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 Section serves the Sports Association and its thirty-seven constituent clubs and is responsible for the continuing management of the Physical Education and Recreation Centre at which recreational programs are available for both students and staff.

It makes bookings for use of sporting facilities including tennis courts and playing fields. This section is located in the Link Building, B6, lower campus. The various services may be contacted by telephoning Recreation Program 697 4884; Grounds Bookings 697 4878; Tennis Bookings 697 4877; Sports Association 697 4880.

- **Physical Education and Recreation Centre**

The Sport and Recreation Section provides a recreational program for students and staff at the Physical Education and Recreation Centre. The Centre consists of eight squash courts, seven tennis courts, a main building, a 50-metre indoor heated swimming pool and a new three-storey ‘Link Building’. 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 ‘Link Building’ between the gymnasium and squash courts provides three additional training rooms on the upper floors and administrative and control functions at ground floor level. The recreational program includes intramurals, teaching/coaching, camps. The Centre is located on the lower campus adjacent to High Street. The Supervisor of Physical Recreation may be contacted by telephoning 697 4884.

- **Student Counselling and Research Unit**

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

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

Appointments are offered throughout the academic year and during recesses between 8 am and 5 pm on week days (up to 6 pm on some evenings). A ‘walk-in’ service for short interviews is available between 9 am and 5 pm. Appointments may be made by telephoning 697 5418 between 9.00 am and 5.00 pm.

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

- **Careers and Employment Section**

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

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

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

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

For further information, telephone 697 5430.

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 telephoning 697 5425, 697 5426 or 697 5427 during the above hours.

The Family Planning Association of NSW conducts clinics at the Student Health Unit and at the adjacent Prince of Wales Hospital which are available for both staff and students. Appointments may be made for the Student Health Unit clinic by telephoning 588 2533 or for the Prince of Wales Hospital clinics by telephoning 399 0111.

The Students' Union

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

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

Membership of the Students' Union is compulsory for all registered students of the University; the annual subscription for full-time and part-time students is set out later, in Rules and Procedures, Enrolment and Procedures and Fees Schedules, section 15. Fees. Only those persons who were enrolled as Life Members prior to January 1 1965, shall retain such membership.

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

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

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

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

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

The University Library

The University libraries are mostly situated on the upper campus. The library buildings house the Social Sciences and
Further information on Union programs, activities and services is provided in the Annual Union Handbook and in the Creative Leisure Classes and Activities brochures published each session.

Student Membership of Faculties and Boards of Studies

The provisions for the appointment of student members to faculties and boards of studies, stated by resolutions of Council of 9 May 1977, 16 January 1978 and 9 July 1984 are:

1. A person who is not a student of the University shall be ineligible to be appointed as a member of a faculty under these rules.

For the purposes of these rules 'student' means a person who is enrolled as a candidate proceeding to a degree or diploma of the University.

2. Each faculty shall recommend to the Professorial Board for consideration and recommendation to the Council the number, or the formula for determining the number, of students eligible to be appointed as members of that faculty and may at any time recommend changes in such matters.

3. Each faculty may recommend to the Professorial Board for consideration and recommendation to the Council the creation of distinct and separate electorates for the appointment of students as members and may at any time recommend changes in such matters.

4. All elections referred to in this resolution shall be conducted annually by the Registrar or his nominee, who shall be the Returning Officer, in accordance with the provisions of this resolution and any other relevant resolution of the Council, on such a day, being either a day in April or a day in October, and at such places and during such hours and using such election machinery and method of counting as shall be agreed upon between the Registrar or his nominee and the Chairman of the relevant faculty.

5. Each faculty may recommend to the Professorial Board for consideration and recommendation to the Council the creation of distinct and separate electorates for the appointment of students as members and may at any time recommend changes in such matters.

6. The successful candidates in any election shall be appointed to their respective faculties by the Registrar or his nominee.

7. A person elected to be a member of a faculty under the provisions of this resolution shall be entitled to such membership for a term of twelve months either from the date of the declaration of the election result or from such other date as shall be agreed between the Registrar or his nominee and the Chairman of the relevant faculty that such membership of a faculty shall not be retained on ceasing to be a student enrolled in the faculty which entitled election except that:

(1) a person who has ceased to be so enrolled by reason of having completed the course requirements between the time of election and the close of the period for which elected shall retain such membership for the full period, and
(2) a student who has been granted leave of absence from the University in order to carry out the duties of an appointment as a full-time salaried officer of the University Union, the Students’ Union, or the Sports Association shall while occupying the office in question be deemed to be a student for the purpose of this resolution and shall retain such membership for the full period.

8. When a casual vacancy in the membership of a faculty occurs either by resignation or by virtue of the provisions of section 7 above the Registrar shall submit to Council for consideration for appointment to the vacancy for the remainder of the period of membership the name of the candidate if any who polled the greatest number of votes of the unsuccessful candidates at the most recent election in the relevant electorate.

9. That where a casual vacancy occurring in student membership of faculties or boards of studies cannot be filled within the provisions of section 8 above, the executive committee of any faculty or board of studies be empowered to nominate to the Vice-Chancellor a student or students for consideration of appointment by Council.

10. Any student enrolled at the date on which the nominations close for a course leading to a degree or diploma awarded in a faculty shall be entitled to be nominated for, to be elected for, and to vote in an election for, membership of that faculty in such electorates as may be provided for under section 3 above.

11. Any student enrolled at the date on which nominations close for a course leading to degrees or diplomas awarded by several faculties shall be eligible in any year to be nominated for, to be elected for, and to vote in an election for, membership of each such faculty in such electorates as may be provided for under section 3 above, provided that such a student shall not in any year be nominated for, be elected for, or vote in an election for, membership of a faculty unless enrolled in a subject controlled by that faculty in that year.

12. Any student enrolled at the date on which nominations close for a course which contains a General Studies component shall be entitled to be nominated for, to be elected for, and to vote in an election for, membership of the Board of Studies in General Education in such electorates as may be provided for under section 3 above.

13. Any student enrolled at the date on which nominations close for the Science and Mathematics course (3970) shall be eligible to be nominated for, to be elected for, and to vote in an election for, membership of the Board of Studies in Science and Mathematics in such electorates as may be provided for under section 3 above.

14. In the interpretation of these provisions the expression ‘faculty’ includes ‘boards of studies’.

**Electorates**

Electorates for student membership of faculties and boards of studies were defined by Council resolution.

**Faculty of Applied Science**

Five members elected by and from the students of the Faculty.

**Faculty of Architecture**

Four members elected by and from the students of the Faculty.

**Faculty of Arts**

Six members elected by and from the students of the Faculty.

**Faculty of Biological Sciences**

(1) Two members elected by and from the graduate students of the Faculty.

(2) One member elected by and from the undergraduates of the Faculty.

In the event of insufficient nominations being received from either electorate, the vacant place(s) shall be filled by the candidate(s), if any, receiving the greatest number of votes of the unsuccessful candidate(s) in the other electorate of the Faculty.

**Faculty of Commerce**

One member for each 500 students elected by and from the students of the Faculty, with a minimum number of three members, including where possible at least one candidate registered for an undergraduate degree and at least one candidate registered for a graduate degree or diploma.

**Faculty of Engineering**

(1) Two members elected by and from the undergraduates of the School of Civil Engineering.

(2) Two members elected by and from the undergraduates of the School of Electrical Engineering and Computer Science.

(3) Two members elected by and from the undergraduates of the School of Mechanical and Industrial Engineering.

(4) Two members elected by and from the undergraduates of the School of Surveying.

(5) Two members elected by and from the graduate students of the Faculty.

**Faculty of Law**

One student member for every 200 registered students (or fraction thereof) or one student member for every ten full-time teachers on the Faculty (or fraction thereof), whichever is the greater, elected by and from the students of the Faculty.

**Faculty of Medicine**

(1) One member elected by and from the undergraduates in Year 1 of the Medicine course.

(2) One member elected by and from the undergraduates in Year 2 of the Medicine course.

(3) One member elected by and from the undergraduates in Year 3 of the Medicine course.

(4) One member elected by and from the undergraduates in Year 4 of the Medicine course and those students enrolled in the course leading to the award of the degree of BMedSc.

(5) One member elected by and from the undergraduates in Year 5 of the Medicine course and the graduate students of the Faculty.

**Faculty of Professional Studies**

(1) One member elected by and from the undergraduates in the School of Education.

(2) One member elected by and from the undergraduates in the School of Health Administration.

(3) One member elected by and from the undergraduates in the School of Social Work.
(4) One member elected by and from the graduate diploma students in the School of Education.
(5) One member elected by and from the graduate diploma students in the School of Health Administration, the School of Librarianship and the School of Social Work.
(6) One member elected by and from the graduate students, other than the graduate diploma students, in the School of Education.
(7) One member elected by and from the graduate students, other than the graduate diploma students, in the School of Health Administration, the School of Librarianship and the School of Social Work.

Faculty of Science
(1) Two members elected by and from the undergraduates in the Pure and Applied Chemistry degree course (3910) and the Optometry degree course (3950).
(2) One member elected by and from the graduate students of the Faculty.

Board of Studies in Science and Mathematics
Three members elected by and from the undergraduates in the Science and Mathematics course (3970).

Australian Graduate School of Management Board of Studies
(1) Two members elected by and from the students enrolled in either the MBA degree course.
(2) One member elected by and from the students enrolled for the degree of Doctor of Philosophy in the AGSM.

Australian Graduate School of Management Board of Management
One member elected by and from the higher degree students in the AGSM (elected for a calendar year).

The provision for retention of membership of faculties and boards by students who are appointed officers of the University Union, the Sports Association and the provisions for filling casual vacancies, do not apply to membership of the AGSM Board of Management.

Board of Studies in General Education
(1) One member elected by and from the graduate students of the Board of Studies.
(2) Three members elected by and from the undergraduates enrolled in courses containing a General Studies component.

Academic Board, University College, Australian Defence Force Academy
(1) One member elected by and from the undergraduates enrolled in the BA degree course.
(2) One member elected by and from the undergraduates enrolled in the BSc degree course.
(3) One member elected by and from the undergraduates enrolled in the BE degree course.
(4) One member elected by and from the graduate students of the University College.

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Financial Assistance to Students

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

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

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

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

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

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

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

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

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

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

The University has also been the recipient of donations from the Arthur T. George Foundation, started by Sir Arthur George and his family, for the endowment of a student loan fund.

In all cases assistance is limited to students with reasonable academic records and whose financial circumstances warrant assistance.
Enquiries about all forms of financial assistance should be made at the office of Student Services, Room G19, the Chancellery.

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

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

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

Rules and Procedures

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

General Conduct

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

Appeals

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

Admission and Enrolment

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

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

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

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

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

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

First Year Entry

Those seeking entry to first year courses in one or more of twenty-four tertiary institutions in the State including all universities are required to lodge a single application form with the Universities and Colleges Admissions Centre (PO Box 7049 Sydney 2001). On the application form provision is made for applicants to indicate preferences for courses available in any one of the seven universities and the other tertiary institutions. Students are notified individually of the result of their applications and provided with information 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, Uni- search House, 221 Anzac Parade, Kensington.

Deferment of First Year Enrolment

Students 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.

First year students who enrol and subsequently discontinue without failure their whole course will be permitted to re-enrol the following year providing they do not enrol at another tertiary institution. They must confirm their intention to re-enrol by lodging an application with the Universities and Colleges Admissions Centre.

Admission Requirements

A candidate for any degree of Bachelor of the University must have qualified for matriculation.
In addition, candidates must be selected before being permitted to enrol in a course. In 1987 it is necessary for the University to limit the number of students enrolling in all undergraduate courses.

Matriculated student
A candidate who has satisfied the conditions for matriculation and for admission to a course of study shall be classed as a ‘matriculated student of the University’, after enrolment.

A person who has satisfactorily met the conditions for admission may be provided with a statement to that effect.

Special entry to the University
Special provisions apply to Aboriginal students, to older students and to those who may have suffered educational disadvantage.

For details see after Supplementary Provision for Matriculation in the following section.

Enrolment Procedures and Fees Schedules 1987

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. (10) 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 should pay the student activities 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 the time allowed (see section 16. below) unless the student has obtained an extension of time (see section 13. below) in which to pay fees from the Student Enquiry Counter, 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 number be given accurately. Cash should not be sent through the mail.

2. New Undergraduate Enrolments
Persons who are applying for entry in 1987 must lodge an application for selection with the Universities and Colleges Admissions Centre, GPO Box 7049, Sydney 2001, by 1 October 1986.

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

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

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

3. Re-enrolment
See also sections 4., 6. and 7. below.

Students who are continuing courses (or returning after approved leave of absence) should enrol in accordance with the procedures set out in the current Enrolment Procedures booklet, available from the Student Enquiry Counter in the Chancellery and from School offices. Undergraduate students who have completed part of a course and have been absent without leave need to apply for entry through the Universities and Colleges Admissions Centre, GPO Box 7049, Sydney 2001, by 1 October 1986.

First year students who enrol and subsequently discontinue without failure their whole course will be permitted to re-enrol the following year providing they do not enrol at another tertiary institution. They must confirm their intention to re-enrol by lodging an application with the Universities and Colleges Admissions Centre.

4. Restrictions Upon Re-enrolling
Students who in 1986 have infringed the rules governing re-enrolment should not attempt to re-enrol in 1987 but should follow the written instructions they will receive from the Registrar in December 1986.

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

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

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

Information about possible student activities fees exemption is set out in section 17. (10) below.
8. Enrolments by Miscellaneous Students

Enrolments by Miscellaneous students are governed by the following rules:

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

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

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

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

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

(6) As a general rule the University does not permit miscellaneous students to enrol in first year undergraduate subjects. Enquiries concerning eligibility for enrolment may be made at the Student Enquiry Counter, the Chancellery (telephone 697 3095).

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 students after the end of the second week of Session 1 (13 March 1987) except with the express approval of the Registrar and the Heads of the Schools concerned. No enrolments for courses in Session 2 only will be accepted after the end of the second week of Session 2 (7 August 1987) except with the express approval of the Registrar and the Heads of the Schools concerned.

10. Student Card — Conditions of Issue

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

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

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

(2) The card is not transferable.

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

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

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

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

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

11. Payment of Fees

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

12. Assisted Students

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

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

13. Extension of Time

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

14. Failure to Pay Fees and Other Debts

Students who fail to pay prescribed fees or charges or are otherwise indebted to the University and who fail either to make a satisfactory settlement of indebtedness upon receipt of due notice or to receive a special exemption cease to be entitled to the use of University facilities. Such students are not permitted to enrol for a further session, to attend classes or examinations, or to be granted any official credentials. In the case of students enrolled for Session 1 only or for both Sessions 1 and 2 this disbarment applies if any portion of fees is outstanding after the end of the eighth week of Session 1 (24 April 1987), in the case of students enrolled for Session 2 only this disbarment applies if any portion of fees is outstanding after the end of the sixth week of Session 2 (11 September 1987).

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

15. Fees

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

**Administration Charge**
- $250

**University Union Entrance Fee**
- Payable on first enrolment: $43
- Students enrolling for only one session must pay the full University Union entrance fee.

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

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

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

Student Activities Fees are adjusted annually by a system of indexation and those set out below have been approved for 1987.

- **University Union annual subscription**: $123
- **Sports Association annual subscription**: $30
- **Students' Union Annual Subscription**
  - Students enrolling in full-time courses: $37
  - Students enrolling in part-time courses or as miscellaneous students: $30
- **Miscellaneous Fund annual fee**: $43

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

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

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

16. Penalties

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

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

17. Exemptions — fees

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

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

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

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

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

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

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

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

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

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

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

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

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

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

18. Variations in Enrolment (including Withdrawal)

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

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

(3) Enrolment in additional subjects
Applications for enrolment in additional subjects must be submitted by:
13 March 1987 for Session 1 only and whole year subjects;
7 August 1987 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 (16 April or 18 September).
(b) for whole year subjects, the end of the second week of Session 2 (7 August).

(5) Withdrawal from Course
First year students who enrol and subsequently discontinue without failure their whole course will be permitted to re-enrol the following year providing they do not enrol at another tertiary institution. They must confirm their intention to re-enrol by lodging an application with the Universities and Colleges Admissions Centre.

(6) Refunds – Student Activities Fees

Whether or not a student’s withdrawal entails academic penalties (covered in item (4) above) there are rules governing Student Activities Fees refunds in the case of complete withdrawal from a course as follows:

(a) If notice of withdrawal from a course is received before the first day of Session 1, a refund of all Student Activities Fees paid will be made.

(b) If notice of withdrawal is received on or after the first day of Session 1, a partial refund of the University Union Entrance Fee will be made on the following basis: any person who has paid the entrance fee in any year and who withdraws from membership of the University Union after the commencement of Session 1 in the same year, or who does not renew membership in the immediately succeeding year may on written application to the Warden receive a refund of half the entrance fee paid.

(c) If the notice of withdrawal is given before the end of the fourth week of Session 1 (27 March 1987) a full refund of Student Activities Fees paid will be made; if notice is given before the end of the seventh week of Session 1 (16 April 1987) a refund of three-quarters of the Student Activities Fees paid will be made; if notice is given before the beginning of Session 2 (27 July 1987) a refund of one-half of the Student Activities Fees paid will be made; if notice is given before the end of the seventh week of Session 2 (18 September 1987) a refund of one-quarter of the Student Activities Fees paid will be made; thereafter no refund will be made except that provided for in (d) below.

(d) If a student’s enrolment in any year is for one session only and the student gives notice of withdrawal prior to the end of the fourth week of that session (27 March or 21 August 1987) a full refund of Student Activities Fees paid will be made; if notice is given before the end of the seventh week of that session (16 April or 18 September 1987) a refund of one-half of the Student Activities Fees paid will be made; thereafter no refund will be made.

(e) The refunds mentioned in (c) and (d) above may be granted by the Registrar to a student unable to notify the Registrar in writing by the times required provided evidence is supplied that the student has ceased attendance by those times.

(7) 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 18 September) will be incorporated in the Confirmation of Enrolment Program notice forwarded to students on 28 April or 29 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.

(8) 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.

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**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-enroll.

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

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**Undergraduate Course Transfers**

Students wishing to transfer from one course to another must complete and submit an application form, obtainable from the Student Enquiry Counter, the Chancellery, by Friday 9 January 1987.

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 office of the Admissions Section.

Students should also advise the enrolling officer in the school in which they were enrolled in 1986 of their intention to transfer.

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**Admission with Advanced Standing**

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

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

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

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

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

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

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

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**Resumption of Courses**

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

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

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**Examinations**

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

**Timetables**

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

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

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

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

Examination Results
Assessment result advices include the final composite marks students achieve in subjects taken that session.

Grading of Passes
Passes are 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 provided that the overall performance is considered to warrant such a concession. A pass conceded in a subject will allow progression to another subject for which the former subject is a prerequisite.

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

Availability of Results
Final examination results will be posted to a student's term address, or vacation address if requested. Forms requesting that results be posted to a vacation address and change of address forms are obtainable at the Student Enquiry Counter, the Chancellery. Forms can be accepted up to Friday 3 July for Session 1 results and Friday 4 December for Session 2 and whole year results. Results are also posted on School noticeboards and in the University Library. Results on noticeboards are listed by Student Registration Number.

No examination results are given by telephone.

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

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

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

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

Special Consideration
Students who believe that their performance in a subject, either during session or in an examination, has been adversely affected by sickness or any other reason should inform the Registrar and ask for special consideration in the determination of their standing.

Such requests should be made as soon as practicable after the occurrence and in any event no more than seven days after the final examination in a subject.

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

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

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

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

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

Examinations Held Away from the Campus
Except in the case of students enrolled on external courses, examinations will not be permitted away from the campus unless the candidate is engaged on compulsory industrial training. Candidates must advise the Officer-in-charge, Examinations Section, immediately the details of the industrial training are known. Special forms for this purpose are available at the Student Enquiry Counter in the north wing of the Chancellery.
Arrival at Examinations
Examination Rooms will be open to students twenty-five minutes before the commencement of the examination. Candidates are required to be in their places at least fifteen minutes before the commencement to hear announcements.

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

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

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

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

Conduct of Examinations
Examinations are conducted in accordance with the following rules and procedure:
1. Candidates are required to obey any instruction given by an examination supervisor for the proper conduct of the examination.
2. Candidates are required to be in their places in the examination room not less than fifteen minutes before the time for commencement.
3. No bag, writing paper, blotting paper, manuscript or book, other than specified material, is to be brought into the examination room.
4. Candidates shall not be admitted to an examination after thirty minutes from the time of commencement of the examination.
5. Candidates shall not be permitted to leave the examination room before the expiry of thirty minutes from the time the examination commences.
6. Candidates shall not be re-admitted to the examination room after they have left it unless, during the full period of their absence, they have been under approved supervision.
7. Candidates shall not by any improper means obtain, or endeavour to obtain, assistance in their work, give, or endeavour to give, assistance to any other candidate, or commit any breach of good order.
8. All answers must be in English unless otherwise stated. Foreign students who have the written approval of the Registrar may use standard linguistic dictionaries.
9. Smoking is not permitted during the course of examinations.
10. A candidate who commits any infringement of the rules governing examinations is liable to disqualification at the particular examination, to immediate expulsion from the examination room and to such further penalty as may be determined in accordance with the By-laws.

Writing in Examinations
Candidates are permitted to take pens, pencils and erasers into the examination room but are advised that all answers must be written in ink. Except where expressly required, pencils may be used only for drawing, sketching or graphical work.

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

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

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

Restriction 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.
The first year rule does not apply to students who discontinue without failure all Session 2 and whole-year subjects.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The decision of the Committee shall be final.

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

(4) The Appeal Committee shall determine appeals after consideration of each appellant’s academic record, application for special permission to re-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) Students whose applications for re-admission to a course or subject are unsuccessful (see 9. (2) (a), (b) respectively) will be invited to appeal to the Re-Enrolment Committee of the Professorial Board. The decision of the Re-Enrolment Committee will be final.

10. Students who fail a subject at the examinations in any year or session and re-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

(See First Year Rule 1. above)

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

<table>
<thead>
<tr>
<th>Faculty/Board of Studies</th>
<th>Minimum Requirement</th>
<th>Course</th>
<th>Unit Values (UV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Science</td>
<td>Half the program</td>
<td>3000-3220</td>
<td>One-session subjects: UV 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Two-session subjects: UV 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Elective subjects:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UV 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>All other subjects:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>appropriate UV corresponding to credit points*</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3360, 3380</td>
<td>Elective subjects:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UV 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>All other subjects:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UV equal to the allocated hours*</td>
</tr>
<tr>
<td>Architecture</td>
<td>Half the program</td>
<td>3275, 3330</td>
<td>Elective subjects:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UV 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>All other subjects:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>appropriate UV corresponding to credit points*</td>
</tr>
<tr>
<td>Arts</td>
<td>18 Level I credit points*</td>
<td>3400-3420</td>
<td>Elective subjects:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UV 0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>All other subjects:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UV equal to the allocated hours*</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>4 units</td>
<td>3431</td>
<td>Science subjects:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>appropriate UV*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Arts subjects:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>6 credit points = UV 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>12 credit points = UV 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>University College (Australian Defence Force Academy)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>BA, BSc</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>All subjects: UV 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>One General Studies elective:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UV 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>All subjects:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>appropriate weighted mark*</td>
</tr>
</tbody>
</table>

Commerce  Three subjects  3490-3595 FT in both sessions

Engineering  Half the program including Physics I or Mathematics I 3660-3682, 3700-3702 Two-session subjects: UV 2

Half the program including Statics or Mathematics I 3620, 3730 All subjects: UV equal to the allocated hours*
Admission to Degree or Diploma

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

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

Students enrolled in courses 3400, 3910, 3970, 8080, 8220, and 8240 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 September for those completing requirements at the end of Session 1, or before March for those completing requirements at the end of Session 2.

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

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

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

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. If graduands are indebted to the University their names will not appear in the list of graduands published in the newspaper, and they will not be permitted to graduate until the debt has been cleared.

Attendance at Classes

Students are expected to be regular and punctual in attendance at all classes in the subjects in which they are enrolled.

All applications for exemption from attendance at classes of any kind must be made in writing to the Registrar.

In the case of illness or 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 or other forms of assessment have been missed, this should be stated in the application.

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

Student Records

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

Release of Information to Third Parties

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

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

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

Change of Address

The Student Records and Scholarships Office of the Department of the Registrar should be notified as soon as possible of any change of address. Failure to do this could lead to important correspondence (including results of assessment) going astray. The University cannot accept responsibility if official communications fail to reach students who have not given notice of their change of address. Change of Address Advice forms are available at Faculty and School offices and from the Student Enquiry Counter in the north wing of the Chancellery.
All communications from the University will be sent to the Session or Term address except when arrangements are made otherwise in the case of results of assessment (see Examinations: Availability of Results, earlier in this section). Change of Address Advice forms will be accepted up to Friday 4 December, except for final-year students wishing to change their Application for Admission for Degree/Diploma form. Changes to this form will be accepted up to a date four weeks before the student’s graduation ceremony.

Ownership of Students’ Work

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

Notices

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

Parking within the University Grounds

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

Academic Dress

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

Further Information

Lost Property

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

The Calendar

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

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

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

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

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

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

Some People Who Can Help You

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

Mr Brian Newell, Senior Administrative Officer, Faculty of Architecture

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

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

Associated Professor Finn Thorvaldson, School of Landscape Architecture
Room 208, Old Main Building. Extension 4844.

Mr David Hassall, School of Building
Room 408, Architecture Building. Extension 4822.

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

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

Faculty of Architecture
Enrolment Procedures

Architecture Degree Course

All students re-enrolling in Architecture courses in 1987 should obtain a copy of the free booklet Architecture Enrolment Procedures 1987 available from the School Office. This booklet provides detailed information on enrolment procedures and enrolment timetable.

Town Planning Degree Course

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

Bachelor of Building Degree Course

The Building course is offered on a credit-point semester-system basis and students are required to enrol for the full year (two semesters) on the dates and at the times shown in the booklet Building Enrolment Procedures 1987.

Building students who elect to take their industrial semester in Session 1 in any year are required to enrol at the beginning of that year.

Enrolment for Session 2 subjects is a preliminary enrolment and accepted subject to the student having obtained the appropriate prerequisites before commencement of that session.
**Rules for Progression**

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

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

**Library Facilities**

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

The **Physical Sciences Library**

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

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

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

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

Physical Sciences Librarian       Marian Bate

**Undergraduate Services**

- The undergraduate collection caters for the needs of students in Years 1 and 2 and other groups where large numbers require mass teaching. Levels 3 and 4.
- The Open Reserve Section, houses books and other material which are required reading. Level 2.

- The Audio-Visual Section, contains cassette tapes, mainly of lectures and other spoken word material. The Audio-Visual Section has wired study carrels and cassette players for student use. Level 3.
- The Reader Education program provides orientation tours and introductory library research method lectures to students.

**Faculty Laboratories**

**Research Laboratories**

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

Research work and testing programs carried out in the laboratories include:

- Efficiency of tiled roofs of various pitch, under extreme weather conditions.
- Study of the performance of bricks and brickwork.
- Condensation behaviour of double-glazed windows.
- Transfer of heat and moisture through wall elements.
- Vibration characteristics of large prestressed concrete structures.
- Penetration of moisture into and through concrete.
- Development of methods of extending the use of solar energy in domestic architecture.
- Development of form-finding techniques and fabrication methods for folded-surface structures.
- Study of noise transmission in buildings.
- Investigation of traffic noise measurement, analysis and prediction.
- The effectiveness of artificial luminous environments.

**Computing Facilities Laboratory**

Established within the Faculty is the University Computer Graphics Facility, a laboratory for the teaching and research of computing methods with a particular emphasis on the use of computer graphics. The laboratory has the following major equipment: VAX 11/750 computer with 2 Mbytes of memory, 124 Mbytes of disk storage; Tektronix storage tube graphics terminals with hard copy and digitizing capability; a refresh-based computer graphics terminal with light pen; electrostatic printer/plotter; multi-pen small flatbed plotter; multi-pen high resolution drafting plotter and several interactive terminals.
The computer is network connected to the University's central computing system, a major Cyber 171 and three VAX 11/780 computers. The laboratory equipment is optionally connected to any of these computers by an automatic switching system.

Active research is under way in the following areas:

The use of computing techniques and graphics in architectural design.

Rational computer-based documentation methods in building.

The development of management information systems for building organizations.

Analysis and development of rational approaches to landscape design and planning.

Various projects in the general areas of environmental and building science.

Student Clubs and Societies

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

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

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

School of Architecture

Head of School
Associate Professor R. E. Apperly

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

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

The courses in Architecture currently offered are:

Bachelor of Architecture course (3275/3280)
Bachelor of Science (Design Studies) course (3275/3295).

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

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

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

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

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

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Mandatory Subjects</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>First semester</td>
<td>25</td>
</tr>
<tr>
<td>Second semester</td>
<td>22</td>
</tr>
<tr>
<td>11.4602 Introduction to Computing</td>
<td>2</td>
</tr>
<tr>
<td>Graduation Project</td>
<td>8</td>
</tr>
</tbody>
</table>

### Elective Subjects

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

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

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

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

### 3280
**Bachelor of Architecture Course**

**Bachelor of Architecture**

**BArch**

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

<table>
<thead>
<tr>
<th>Semester</th>
<th>Mandatory Subjects</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>First semester</td>
<td></td>
<td>25</td>
</tr>
<tr>
<td>Second semester</td>
<td></td>
<td>22</td>
</tr>
<tr>
<td>Semesters 1 and 2</td>
<td>The core subjects (other than those taken in mandatory subjects)</td>
<td>94</td>
</tr>
</tbody>
</table>

 Elective Subjects

Minimum credit points which must be taken from subjects offered by the Department of General Studies* 12
Minimum credit points which must be taken from subjects offered by the Faculty of Architecture 53
Maximum credit points which may be taken from subjects offered by universities and approved institutions, other than the Faculty of Architecture, and approved by the Head of School 16
Research Methods 2
Dissertation 10

Practical Experience

Approved practical experience nil 234

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

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:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Architectural Design</td>
<td>50</td>
</tr>
<tr>
<td>2. Architectural Environment</td>
<td>29</td>
</tr>
<tr>
<td>3. Technology</td>
<td>34</td>
</tr>
<tr>
<td>4. Practice</td>
<td>11</td>
</tr>
<tr>
<td>5. Communication</td>
<td>17</td>
</tr>
</tbody>
</table>

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

Mandatory Subjects of the First Two Semesters

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

First Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4101</td>
<td>Principles of Design</td>
<td>4</td>
</tr>
<tr>
<td>11.4301</td>
<td>Contextual Studies</td>
<td>5</td>
</tr>
<tr>
<td>11.4401</td>
<td>Principles of Construction</td>
<td>6</td>
</tr>
<tr>
<td>11.4402</td>
<td>Structures and Materials</td>
<td>4</td>
</tr>
<tr>
<td>11.4601</td>
<td>Introduction to Communication</td>
<td>6</td>
</tr>
</tbody>
</table>

Second Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4201</td>
<td>Living Unit</td>
<td>4</td>
</tr>
<tr>
<td>11.4303</td>
<td>Introduction to Architectural Science</td>
<td>4</td>
</tr>
<tr>
<td>11.4307</td>
<td>History of Architecture and Design</td>
<td>3</td>
</tr>
<tr>
<td>11.4403</td>
<td>Principles of Structures</td>
<td>4</td>
</tr>
<tr>
<td>11.4510</td>
<td>Practice and Management</td>
<td>2</td>
</tr>
<tr>
<td>11.4603</td>
<td>Graphic Communication</td>
<td>5</td>
</tr>
</tbody>
</table>

Progression and Re-Enrolment

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

Honours

The Bachelor of Science (Design Studies) degree and the old Bachelor of Science (Architecture) degree may be awarded with Honours after completion of the BSc(DesStud) or the old BSc(Arch) Honours program, in accordance with current Faculty regulations. Honours are Class 1 or Class 2 Division 1 or Class 2 Division 2.

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

Registration and Professional Recognition

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

The degree of Bachelor of Science (Design Studies) is not recognized by the Board of Architects of NSW for registration for practice as an architect.

The degree of Bachelor of Architecture of the University of New South Wales is recognized by the Board of Architects of New South Wales for the purposes of legal registration. In addition, to become registered the candidate must satisfy the following requirements:

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

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

The foregoing is a general statement, and students are strongly advised to obtain further particulars from the RAIA and the Board of Architects of New South Wales.
Courses 3275, 3280 and 3295: Schedule of Subjects

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

**Architectural Design — Specific**

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4201</td>
<td>Living Unit</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>11.4219</td>
<td>Design A (Community Facilities 1)</td>
<td>6</td>
<td>11.4102, 11.4303, 11.4401, 11.4403</td>
</tr>
<tr>
<td>11.4229</td>
<td>Design B (Residential Facilities 1)</td>
<td>6</td>
<td>11.4219 or equivalent*, 11.4414</td>
</tr>
<tr>
<td>11.4239</td>
<td>Design C (Community Facilities 2)</td>
<td>6</td>
<td>11.4103, 11.4229 or equivalent**</td>
</tr>
<tr>
<td>11.4249</td>
<td>Design D (Residential Facilities 2)</td>
<td>6</td>
<td>11.4239 or equivalent†, 11.4304, 11.4305, 11.4306, 11.4407, 11.4415</td>
</tr>
<tr>
<td>11.4259</td>
<td>Design E (Community Facilities 3)</td>
<td>8</td>
<td>11.4249 or equivalent‡, 11.4408</td>
</tr>
</tbody>
</table>

**Elective Subjects**

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4260</td>
<td>Design F</td>
<td>6</td>
<td>11.4249 or equivalent‡</td>
</tr>
<tr>
<td>11.4261</td>
<td>Design G</td>
<td>8</td>
<td>11.4259 or equivalent§</td>
</tr>
</tbody>
</table>

*Equivalent subjects to 11.4219 are any of the following subjects offered prior to 1987—11.4211, 11.4212, 11.4213, 11.4214.

**Equivalent subjects to 11.4229 are any of the following subjects offered prior to 1987—11.4221, 11.4222, 11.4223.

†Equivalent subjects to 11.4239 are any of the following subjects offered prior to 1987—11.4230, 11.4231, 11.4232, 11.4233, 11.4234.

‡Equivalent subjects to 11.4249 are any of the following subjects offered prior to 1987—11.4240, 11.4241, 11.4242, 11.4243, 11.4344.

§Equivalent subjects to 11.4259 are any of the following subjects offered prior to 1987—11.4250, 11.4251, 11.4252, 11.4253, 11.4254, 11.4255, 11.4256, 11.4257.
### Architectural Environment

#### Core Subjects

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4301</td>
<td>Contextual Studies</td>
<td>5</td>
<td>nil</td>
</tr>
<tr>
<td>11.4303</td>
<td>Introduction to Architectural Science</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>11.4304</td>
<td>Thermal Design of Buildings</td>
<td>3</td>
<td>11.4303</td>
</tr>
<tr>
<td>11.4305</td>
<td>Lighting of Buildings</td>
<td>3</td>
<td>11.4303</td>
</tr>
<tr>
<td>11.4306</td>
<td>Acoustics of Buildings</td>
<td>3</td>
<td>11.4303</td>
</tr>
<tr>
<td>11.4307</td>
<td>History of Architecture and Design</td>
<td>3</td>
<td>nil</td>
</tr>
<tr>
<td>11.4308</td>
<td>Western Architecture</td>
<td>3</td>
<td>11.4307</td>
</tr>
<tr>
<td>11.4309</td>
<td>Australian Architecture</td>
<td>3</td>
<td>11.4308</td>
</tr>
<tr>
<td>36.411</td>
<td>Town Planning</td>
<td>2</td>
<td>11.4308, 94 credit points</td>
</tr>
</tbody>
</table>

#### Elective Subjects

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4320</td>
<td>Geometry</td>
<td>3</td>
<td>nil</td>
</tr>
<tr>
<td>11.4321</td>
<td>Physics</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>11.4322</td>
<td>Solar Energy</td>
<td>2</td>
<td>11.4304</td>
</tr>
<tr>
<td>11.4323</td>
<td>Room Acoustics</td>
<td>2</td>
<td>11.4306</td>
</tr>
<tr>
<td>11.4325</td>
<td>Tropical Architecture</td>
<td>2</td>
<td>11.4303</td>
</tr>
<tr>
<td>11.4326</td>
<td>Acoustics Studies</td>
<td>4</td>
<td>11.4323</td>
</tr>
<tr>
<td>11.4327</td>
<td>Lighting Research</td>
<td>4</td>
<td>11.4324</td>
</tr>
<tr>
<td>11.4329</td>
<td>The Design of Lighting</td>
<td>4</td>
<td>11.4305, one from Design Specific, Group A</td>
</tr>
<tr>
<td>11.4330</td>
<td>Modern Architecture</td>
<td>2</td>
<td>11.4308</td>
</tr>
<tr>
<td>11.4331</td>
<td>The Australian House since 1900</td>
<td>2</td>
<td>11.4309</td>
</tr>
<tr>
<td>11.4332</td>
<td>Historical Research A</td>
<td>3</td>
<td>11.4309, 130 credit points</td>
</tr>
<tr>
<td>11.4333</td>
<td>Historical Research B</td>
<td>3</td>
<td>11.4309, 130 credit points</td>
</tr>
<tr>
<td>11.4334</td>
<td>Historical Research C</td>
<td>3</td>
<td>11.4309, 130 credit points</td>
</tr>
<tr>
<td>11.4335</td>
<td>Eastern Architecture</td>
<td>2</td>
<td>11.4307</td>
</tr>
<tr>
<td>11.4336</td>
<td>Measured Studies of Historic Structures</td>
<td>3</td>
<td>11.4308, 11.4603</td>
</tr>
<tr>
<td>11.4339</td>
<td>Introduction to Building Conservation</td>
<td>5</td>
<td>11.4309, 11.4414</td>
</tr>
<tr>
<td>11.4340</td>
<td>Cognition &amp; Behaviour A</td>
<td>3</td>
<td>11.4301</td>
</tr>
<tr>
<td>11.4341</td>
<td>Cognition &amp; Behaviour B</td>
<td>3</td>
<td>11.4340</td>
</tr>
<tr>
<td>11.4342</td>
<td>Transport Systems</td>
<td>4</td>
<td>36.411</td>
</tr>
<tr>
<td>11.4343</td>
<td>Urban Planning</td>
<td>4</td>
<td>36.411</td>
</tr>
<tr>
<td>11.4344</td>
<td>Landscape Planning</td>
<td>4</td>
<td>11.4303</td>
</tr>
<tr>
<td>11.4345</td>
<td>Urbanism</td>
<td>2</td>
<td>11.4309</td>
</tr>
<tr>
<td>11.4346</td>
<td>Australian House (Measured Drawing)</td>
<td>2</td>
<td>11.4331</td>
</tr>
<tr>
<td>11.4347</td>
<td>Australian House (Report)</td>
<td>2</td>
<td>11.4331</td>
</tr>
</tbody>
</table>

### Technology

#### Core Subjects

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4401</td>
<td>Principles of Construction</td>
<td>6</td>
<td>nil</td>
</tr>
<tr>
<td>11.4402</td>
<td>Structures &amp; Materials</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>11.4403</td>
<td>Principles of Structures</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>11.4407</td>
<td>Services A</td>
<td>3</td>
<td>11.4303, 11.4414</td>
</tr>
</tbody>
</table>
### Courses 3270, 3280 and 3295: Schedule of Subjects (continued)

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4408</td>
<td>Services B</td>
<td>3</td>
<td>11.4304, 11.4415</td>
</tr>
<tr>
<td>11.4414</td>
<td>Construction A</td>
<td>5</td>
<td>11.4401, 11.4402</td>
</tr>
<tr>
<td>11.4415</td>
<td>Construction B</td>
<td>5</td>
<td>11.4414, 11.4416</td>
</tr>
<tr>
<td>11.4416</td>
<td>Structures</td>
<td>4</td>
<td>11.4402, 11.4403</td>
</tr>
</tbody>
</table>

#### Elective Subjects

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4420</td>
<td>Technology for Low-rise Buildings</td>
<td>5</td>
<td>11.4414</td>
</tr>
<tr>
<td>11.4421</td>
<td>Technology for High-rise Buildings</td>
<td>5</td>
<td>11.4415</td>
</tr>
<tr>
<td>11.4422</td>
<td>Technology for Low-cost Housing</td>
<td>5</td>
<td>11.4416</td>
</tr>
<tr>
<td>11.4423</td>
<td>Rationalized Building Systems</td>
<td>5</td>
<td>11.4415</td>
</tr>
<tr>
<td>11.4424</td>
<td>Const. Planning &amp; Management</td>
<td>3</td>
<td>11.4407, 11.4408</td>
</tr>
<tr>
<td>11.4425</td>
<td>Earth Construction A</td>
<td>3</td>
<td>11.4402, 11.4303</td>
</tr>
<tr>
<td>11.4426</td>
<td>Earth Construction B</td>
<td>3</td>
<td>11.4425</td>
</tr>
<tr>
<td>11.4430</td>
<td>Integration of Services</td>
<td>4</td>
<td>11.4407, 11.4408</td>
</tr>
<tr>
<td>11.4440</td>
<td>Building Materials A</td>
<td>2</td>
<td>11.4414</td>
</tr>
<tr>
<td>11.4441</td>
<td>Building Materials B</td>
<td>5</td>
<td>11.4440</td>
</tr>
<tr>
<td>11.4450</td>
<td>Advanced Structural Analysis</td>
<td>4</td>
<td>11.4416, 11.4602</td>
</tr>
<tr>
<td>11.4451</td>
<td>Advanced Structural Design</td>
<td>4</td>
<td>11.4415</td>
</tr>
<tr>
<td>11.4452</td>
<td>Models Analysis &amp; Form-finding</td>
<td>3</td>
<td>11.4403</td>
</tr>
<tr>
<td>11.4453</td>
<td>Surface &amp; Spatial Structures A</td>
<td>5</td>
<td>11.4416</td>
</tr>
<tr>
<td>11.4454</td>
<td>Surface &amp; Spatial Structures B</td>
<td>5</td>
<td>11.4453</td>
</tr>
<tr>
<td>11.4455</td>
<td>Technology Research A</td>
<td>5</td>
<td>11.4416, 140 credit points</td>
</tr>
<tr>
<td>11.4456</td>
<td>Technology Research B</td>
<td>5</td>
<td>11.4455</td>
</tr>
<tr>
<td>11.4457</td>
<td>Workshop Practice</td>
<td>1</td>
<td>nil</td>
</tr>
<tr>
<td>11.4458</td>
<td>Construction Documentation</td>
<td>5</td>
<td>11.4407, 11.4415</td>
</tr>
</tbody>
</table>

### Practice

#### Core Subjects

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4510</td>
<td>Practice and Management</td>
<td>2</td>
<td>nil</td>
</tr>
<tr>
<td>11.4511</td>
<td>Building Economics and Specifications</td>
<td>3</td>
<td>11.4414, 11.4510</td>
</tr>
<tr>
<td>11.4512</td>
<td>Contract Administration A</td>
<td>2</td>
<td>11.4414, 11.4510</td>
</tr>
<tr>
<td>11.4513</td>
<td>Contract Administration B</td>
<td>2</td>
<td>11.4512, 117 credit points</td>
</tr>
<tr>
<td>11.4514</td>
<td>Management for Architects</td>
<td>2</td>
<td>11.4513, 11.4703</td>
</tr>
</tbody>
</table>

#### Elective Subjects

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4520</td>
<td>Management Systems &amp; Finance</td>
<td>2</td>
<td>11.4514</td>
</tr>
<tr>
<td>11.4521</td>
<td>Documentation</td>
<td>3</td>
<td>11.4511</td>
</tr>
<tr>
<td>11.4522</td>
<td>Building Economics &amp; Development</td>
<td>3</td>
<td>11.4511</td>
</tr>
<tr>
<td>11.4524</td>
<td>The Architect and the Law</td>
<td>2</td>
<td>11.4513</td>
</tr>
<tr>
<td>11.4525</td>
<td>Project Management</td>
<td>3</td>
<td>11.4513</td>
</tr>
<tr>
<td>11.4526</td>
<td>Industrial Relations</td>
<td>2</td>
<td>11.4512</td>
</tr>
<tr>
<td>No.</td>
<td>Subject Name</td>
<td>Credit Points</td>
<td>Prerequisites</td>
</tr>
<tr>
<td>------</td>
<td>--------------------------------------</td>
<td>---------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>11.4601</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>
</tr>
<tr>
<td>11.4604</td>
<td>Graphic Communication Theory</td>
<td>4</td>
<td>11.4601</td>
</tr>
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</table>

**Elective Subjects**

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4620</td>
<td>Presentation Graphics</td>
<td>3</td>
<td>11.4603, 11.4604</td>
</tr>
<tr>
<td>11.4621</td>
<td>Oral &amp; Written Communication</td>
<td>2</td>
<td>11.4601</td>
</tr>
<tr>
<td>11.4622</td>
<td>Spatial Communication</td>
<td>2</td>
<td>nil</td>
</tr>
<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>
</tr>
<tr>
<td>11.4625</td>
<td>Constructional Geometry</td>
<td>3</td>
<td>11.4603, one from Design Specific, Group A</td>
</tr>
<tr>
<td>11.4626</td>
<td>Architectural Ceramics &amp; Sculpt.</td>
<td>3</td>
<td>nil</td>
</tr>
<tr>
<td>11.4627</td>
<td>Computer Graphics</td>
<td>4</td>
<td>11.4632</td>
</tr>
<tr>
<td>11.4628</td>
<td>Contemporary Styles in Art</td>
<td>4</td>
<td>11.4629</td>
</tr>
<tr>
<td>11.4629</td>
<td>Graphic Art</td>
<td>4</td>
<td>11.4604</td>
</tr>
<tr>
<td>11.4631</td>
<td>Advanced Graphic Concepts</td>
<td>4</td>
<td>11.4629 or 11.4620</td>
</tr>
<tr>
<td>11.4632</td>
<td>Computer Programming and Graphics</td>
<td>6</td>
<td>11.4602, 94 credit points</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Excluded 11.4627 (1982 or earlier)</td>
</tr>
<tr>
<td>11.4633</td>
<td>Architectural Drawing and Rendering</td>
<td>4</td>
<td>11.4603, one from Design Specific, Group A</td>
</tr>
<tr>
<td>11.4634</td>
<td>Drawing</td>
<td>4</td>
<td>11.4601, 11.4603</td>
</tr>
<tr>
<td>11.4635</td>
<td>Painting</td>
<td>4</td>
<td>11.4601, 11.4603</td>
</tr>
<tr>
<td>11.4636</td>
<td>Computer-aided Drafting</td>
<td>4</td>
<td>140 credit points</td>
</tr>
</tbody>
</table>

**Other Required Studies**

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

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4701</td>
<td>Graduation Project</td>
<td>8</td>
<td>117 credit points</td>
</tr>
<tr>
<td></td>
<td>General Studies Subjects</td>
<td>6</td>
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</table>

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

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4705</td>
<td>Honours Project</td>
<td>26</td>
<td>140 credit points</td>
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</tbody>
</table>

**BArch Degree Course**

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4703</td>
<td>Practical Experience</td>
<td></td>
<td>117 credit points</td>
</tr>
<tr>
<td>11.4707</td>
<td>Research Methods*</td>
<td>2</td>
<td>140 credit points</td>
</tr>
<tr>
<td>11.4708</td>
<td>Dissertation*</td>
<td>10</td>
<td>11.4707</td>
</tr>
<tr>
<td></td>
<td>General Studies Subjects</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*From Session 1, 1984, 11.4707 Research Methods and 11.4708 Dissertation replaced 11.4702 Thesis as a compulsory requirement of Course 3280 for all students except for those who have had their Thesis topic approved prior to Session 1, 1984. These students may, with the permission of the Head of School, elect to enrol in 11.4702 Thesis as an alternative to 11.4707 and 11.4708. Students enrolling in 11.4332 Historical Research A have the option of extending their work in 11.4332, 11.4333 and 11.4334 into the existing subject 11.4702 Thesis.
Courses 3275, 3280 and 3295: Schedule of Subjects (continued)

<table>
<thead>
<tr>
<th>No</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>11.4702</td>
<td>Thesis</td>
<td>12</td>
<td>140 credit points</td>
</tr>
<tr>
<td>11.4704</td>
<td>Architectural Research</td>
<td>4</td>
<td>140 credit points</td>
</tr>
<tr>
<td>11.4706</td>
<td>Architecture Graduation Project</td>
<td>20</td>
<td>187 credit points. Selection on merit</td>
</tr>
<tr>
<td>11.4720</td>
<td>Appropriate Technology 1</td>
<td>3</td>
<td>40 credit points including 11.4301, 11.4303, 11.4402</td>
</tr>
<tr>
<td>11.4721</td>
<td>Appropriate Technology 2</td>
<td>4</td>
<td>11.4720</td>
</tr>
<tr>
<td>11.4722</td>
<td>Appropriate Technology 3</td>
<td>10</td>
<td>94 credit points including 11.4721, 11.4457</td>
</tr>
<tr>
<td>11.4730</td>
<td>Industrial Archaeology 1</td>
<td>4</td>
<td>40 credit points</td>
</tr>
<tr>
<td>11.4731</td>
<td>Industrial Archaeology 2</td>
<td>4</td>
<td>11.4730</td>
</tr>
<tr>
<td>11.4732</td>
<td>Traditional Technology 1</td>
<td>4</td>
<td>40 credit points</td>
</tr>
<tr>
<td>11.4733</td>
<td>Traditional Technology 2</td>
<td>5</td>
<td>11.4732</td>
</tr>
<tr>
<td>11.4734</td>
<td>Traditional Building Technology</td>
<td>4</td>
<td>11.4732</td>
</tr>
<tr>
<td>11.4735</td>
<td>Traditional Technologies of Pakistan</td>
<td>4</td>
<td>11.4732</td>
</tr>
<tr>
<td>11.4736</td>
<td>Traditional Technology 3</td>
<td>10</td>
<td>11.4402, 11.4733, 11.4734 or 11.4735</td>
</tr>
<tr>
<td>11.4740</td>
<td>Industrial Design 1</td>
<td>6</td>
<td>40 credit points</td>
</tr>
<tr>
<td>11.4741</td>
<td>Industrial Design Methods A</td>
<td>2</td>
<td>nil</td>
</tr>
<tr>
<td>11.4742</td>
<td>Industrial Design Methods B</td>
<td>5</td>
<td>11.4740, 11.4741</td>
</tr>
<tr>
<td>11.4743</td>
<td>Industrial Design Case Histories</td>
<td>2</td>
<td>11.4740, 11.4741</td>
</tr>
<tr>
<td>11.4744</td>
<td>Industrial Design 2</td>
<td>7</td>
<td>11.4740</td>
</tr>
<tr>
<td>11.4745</td>
<td>Industrial Design 3A</td>
<td>10</td>
<td>11.4742, 11.4743, 11.4744</td>
</tr>
<tr>
<td>11.4746</td>
<td>Industrial Design 3B</td>
<td>10</td>
<td>11.4742, 11.4743, 11.4744</td>
</tr>
<tr>
<td>11.4747</td>
<td>Industrial Design Special Project</td>
<td>10</td>
<td>140 credit points. Selection on merit</td>
</tr>
<tr>
<td>11.4750</td>
<td>Pottery and Ceramics</td>
<td>5</td>
<td>11.4402</td>
</tr>
<tr>
<td>11.4751</td>
<td>History of Ceramics</td>
<td>4</td>
<td>11.4307</td>
</tr>
<tr>
<td>11.4752</td>
<td>Pottery and Ceramic Technology A</td>
<td>5</td>
<td>1.4402 and either 11.4750 or 11.4626</td>
</tr>
<tr>
<td>11.4753</td>
<td>Ceramic Kilns</td>
<td>10</td>
<td>11.4752</td>
</tr>
<tr>
<td>11.4754</td>
<td>Pottery Management</td>
<td>10</td>
<td>11.4752</td>
</tr>
<tr>
<td>11.4755</td>
<td>Pottery and Ceramic Technology B</td>
<td>5</td>
<td>1.4402 and either 11.4750 or 11.4626</td>
</tr>
</tbody>
</table>

**Department of Industrial Arts**

**Acting Head of Department**
Dr W. R. Lawson

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

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

**3310 Industrial Arts Course — Full-time**

**Bachelor of Science (BSc)**

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

**3320 Industrial Arts Course — Full-time**

**Bachelor of Science (Industrial Arts)/ Diploma in Education (BSc(IndArts) DipEd)**

This course was discontinued from 1982 and no new students may be enrolled. Students already enrolled may continue with their studies until completion of the degree. Students should consult pages 37 and 38 of the 1984 Architecture Faculty handbook for details of this course.
Industrial Arts Course — Part-time
Bachelor of Science (Technology)
BSc

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

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

Practical Experience

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

Award of the Degree at Honours Level

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

Professional Recognition

The award of the degree, Bachelor of Building, is recognized for admission to membership by:

(1) The Australian Institute of Building:
(2) The Australian Institute of Quantity Surveyors, subject to completion of the following electives:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.813</td>
<td>Quantity Surveying 3</td>
</tr>
<tr>
<td>35.833</td>
<td>Building Economics 3</td>
</tr>
<tr>
<td>35.506</td>
<td>Construction 6</td>
</tr>
<tr>
<td>35.507</td>
<td>Construction 7</td>
</tr>
<tr>
<td>35.580</td>
<td>Building Design Analysis</td>
</tr>
<tr>
<td>35.720</td>
<td>Commercial Arbitration</td>
</tr>
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</table>

(3) The Institution of Surveyors Malaysia, subject to completion of the following:

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.801</td>
<td>Quantity Surveying 1</td>
</tr>
<tr>
<td>35.802</td>
<td>Quantity Surveying 2</td>
</tr>
<tr>
<td>35.813</td>
<td>Quantity Surveying 3</td>
</tr>
</tbody>
</table>

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

Management Studies Stream

Compulsory Subjects

35.701 Management 1 (Management Principles) 4 nil
35.702 Management 2 (Professional Practice) 4 35.701
35.703 Management 3 (Planning) 4 35.502, 35.603 or 35.751, 35.702
35.704 Management 4 (Contracts, Site Administration) 4 35.703
35.705 Management 5 (Project Management) 4 35.704
35.707 Management 7 (Corporate Strategy) 4 35.704, 35.832 or 35.842
35.721 Law for Builders 1 2 nil
35.722 Law for Builders 2 2 35.721
35.751 Introduction to Computing 2 nil
35.752 Computer Applications in Building 3 35.751

Elective Subjects

35.706 Management 6 (Personnel Management) 4 35.704
35.708 Management 8 (Marketing) 4 35.704, 35.832 or 35.842
35.720 Commercial Arbitration 4 35.704
35.753 Systems Analysis and Modelling 4 35.703
35.754 Building Information Systems 4 14.001, 35.603 or 35.752

Building Science Stream

Compulsory Subjects

1.931 Physics 1 (Building) 4 nil
3.501 Building Science (Materials) 4 nil
3.502 Building Science 2 (Energy) 5 1.931
3.505 Building Science 5 (Concrete) 3 nil
3.506 Building Science 6 (Metals) 3 nil
3.551 Services 1 (Hydraulics) 3 nil
3.552 Services 2 (Mechanical) 3 3.502
3.567 Mathematics for Builders 4 nil

Elective Subjects

3.564 Building Science 4 (Plastics) 3 nil
3.567 Building Science 7 (Thermal) 3 3.560
3.569 Building Science 9 (Timber) 3 nil
3.563 Services 3 (Integration) 4 3.561, 3.562

Building Economics Stream

Compulsory Subjects

14.001 Introduction to Accounting A 2 nil
14.002 Introduction to Accounting B 2 14.001
35.801 Quantity Surveying 1 4 35.503
35.802 Quantity Surveying 2 —4 35.504, 35.870 or 35.871
35.831 Building Economics 1 4(3)* nil
35.832 Building Economics 2 4(3)* 35.831 or 35.840, 14.002
35.867 Estimating 1 4(3)* 35.503
35.871 Building Specifications 3(2)* 35.503
35.880 Development Project 4 35.504, 35.832 or 35.842

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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantity Surveying 3</td>
<td>4</td>
<td>35.802</td>
</tr>
<tr>
<td>Building Economics 3</td>
<td>5</td>
<td>35.832 or 35.842, 35.866 or 35.868</td>
</tr>
<tr>
<td>Estimating 2</td>
<td>3</td>
<td>35.603 or 35.752, 35.865 or 35.867</td>
</tr>
<tr>
<td>Property Valuation</td>
<td>2</td>
<td>35.503, 35.831 or 35.840</td>
</tr>
</tbody>
</table>

Others

Compulsory Subjects

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thesis</td>
<td>10</td>
<td>100 credit points</td>
</tr>
<tr>
<td>Industry Semester*</td>
<td>3</td>
<td>35.503, 35.702</td>
</tr>
<tr>
<td>General Studies</td>
<td>10</td>
<td>nil</td>
</tr>
</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.

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

School of Landscape Architecture

Head of School
A/Professor Finn 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.

General Description of the Course

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

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

Practical Experience

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

Honours

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

Professional Recognition

The course is recognized by the Australian Institute of Landscape Architects and graduates holding the BLArch degree will qualify for corporate membership after a specified period of graduate experience and formal examination.
## 3380
### Landscape Architecture Course
### Bachelor of Landscape Architecture
### BLArch

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

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

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

### Schedule of Subjects

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Hours Per Week</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Session 1</strong></td>
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<td></td>
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<tr>
<td>27.818</td>
<td>Australian Environment and Human Response*</td>
<td>4</td>
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</tr>
<tr>
<td>37.0001</td>
<td>Introduction to Landscape Architecture</td>
<td>1</td>
<td>nil</td>
</tr>
<tr>
<td>37.3101</td>
<td>Landscape Graphics 1</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>37.5101</td>
<td>Design 1</td>
<td>3</td>
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</tr>
<tr>
<td>37.7101</td>
<td>Landscape Technology 1*</td>
<td>2</td>
<td>nil</td>
</tr>
<tr>
<td>43.202</td>
<td>Botany for Landscape Architects</td>
<td>5</td>
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</tr>
<tr>
<td>General Studies Elective</td>
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<td></td>
<td>21</td>
</tr>
<tr>
<td><strong>Session 2</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>37.1102</td>
<td>Horticulture for Landscape Architects</td>
<td>3</td>
<td>43.202</td>
</tr>
<tr>
<td>37.1202</td>
<td>Prehistory for Landscape Architects</td>
<td>1</td>
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<tr>
<td>37.1302</td>
<td>Landscape Analysis*</td>
<td>6</td>
<td>27.801, 43.202</td>
</tr>
<tr>
<td>37.3203</td>
<td>Landscape Graphics 2</td>
<td>4</td>
<td>37.3101</td>
</tr>
<tr>
<td>37.5202</td>
<td>Design 2</td>
<td>3</td>
<td>37.5101</td>
</tr>
<tr>
<td>37.7202</td>
<td>Landscape Technology 2</td>
<td>3</td>
<td>37.7101</td>
</tr>
<tr>
<td>General Studies Elective</td>
<td>2</td>
<td></td>
<td>22</td>
</tr>
</tbody>
</table>

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

| **Year 2**                           |                 |                             |                             |
| **Session 1**                        |                 |                             |                             |
| 37.1403 | History of Landscape Architecture             | 3              | nil                         |
| 37.1503 | Environmental Sociology for Landscape Architects | 3          | 37.1202                     |
| 37.3303 | Landscape Graphics 3                          | 3              | 37.3202                     |
| 37.5303 | Landscape Design 1                            | 7              | 37.5202                     |
| 37.7303 | Landscape Technology 3                        | 4              | 37.7202                     |
| General Studies Elective              | 2              |                             | 22                          |
### 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>37.0014</td>
<td>Introduction to Computer Applications</td>
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<td>37.3404</td>
<td>Landscape Graphics 4</td>
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<td>37.3303</td>
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<td>37.5004</td>
<td>Planting Design</td>
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<td>37.1102</td>
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<tr>
<td>37.7404</td>
<td>Landscape Technology 4</td>
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<td>37.7303</td>
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#### Year 3

##### Session 1

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<tbody>
<tr>
<td>36.411</td>
<td>Town Planning</td>
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<tr>
<td>37.3005</td>
<td>Research Methods</td>
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</tr>
<tr>
<td>37.5505</td>
<td>Landscape Design 3</td>
<td>8</td>
<td>37.3404, 37.5404, 37.7404</td>
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<tr>
<td>37.7115</td>
<td>Professional Practice 1</td>
<td>1½</td>
<td>37.5404, 37.7404</td>
</tr>
<tr>
<td>37.7505</td>
<td>Landscape Engineering 1</td>
<td>4</td>
<td>37.7404</td>
</tr>
<tr>
<td>37.9105</td>
<td>Landscape Planning 1</td>
<td>4</td>
<td>37.1504</td>
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<tr>
<td>General Studies Elective</td>
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##### Session 2

<table>
<thead>
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<th>Subject Name</th>
<th>Hours Per Week</th>
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</thead>
<tbody>
<tr>
<td>37.1606</td>
<td>Land Systems</td>
<td>3</td>
<td>37.5003</td>
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<td>37.5606</td>
<td>Landscape Design 4</td>
<td>8</td>
<td>37.5505</td>
</tr>
<tr>
<td>37.7216</td>
<td>Professional Practice 2</td>
<td>1½</td>
<td>37.7115</td>
</tr>
<tr>
<td>37.7606</td>
<td>Landscape Engineering 2</td>
<td>2</td>
<td>37.7505</td>
</tr>
<tr>
<td>37.9206</td>
<td>Landscape Planning 2</td>
<td>4</td>
<td>37.9105</td>
</tr>
<tr>
<td>General Studies Elective</td>
<td>2</td>
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#### Year 4

##### Session 1

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<th>Hours Per Week</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>37.1707</td>
<td>Land Management</td>
<td>2</td>
<td>37.1606</td>
</tr>
<tr>
<td>37.3007</td>
<td>Landscape Thesis</td>
<td>6</td>
<td>37.3005, 37.5606</td>
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<tr>
<td>37.5707</td>
<td>Landscape Design 5</td>
<td>8</td>
<td>37.5606</td>
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<tr>
<td>37.7317</td>
<td>Professional Practice 3</td>
<td>1½</td>
<td>37.7216</td>
</tr>
<tr>
<td>37.9307</td>
<td>Landscape Planning 3</td>
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21½

##### Session 2

<table>
<thead>
<tr>
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<th>Subject Name</th>
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<th>Prerequisites</th>
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<tbody>
<tr>
<td>37.3007</td>
<td>Landscape Thesis</td>
<td>4</td>
<td>See Session 1</td>
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<tr>
<td>37.5808</td>
<td>Landscape Design 6</td>
<td>12</td>
<td>37.5707</td>
</tr>
<tr>
<td>37.7418</td>
<td>Professional Practice 4</td>
<td>1½</td>
<td>37.7317, four months practical experience</td>
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<tr>
<td>37.9408</td>
<td>Landscape Planning 4</td>
<td>4</td>
<td>37.9307</td>
</tr>
</tbody>
</table>

21½
School of Town Planning

Head of School
Professor H. L. Westerman

Town Planning Degree Course
BTP

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

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

General Description of the Course

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

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

Practical Experience

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

Honours

Honours are awarded in the Bachelor of Town Planning degree course on the basis of quality of performance throughout the whole course and in accordance with current Faculty regulations.

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

Professional Recognition

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

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>
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</thead>
<tbody>
<tr>
<td>36.211 Introduction to Planning</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>29.901 Introduction to Mapping</td>
<td>1 ½</td>
<td>2</td>
</tr>
<tr>
<td>36.134 Graphic Communication</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>36.222 Computers and Information Systems</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>36.245 Land Development Process</td>
<td>2 ½</td>
<td>3</td>
</tr>
<tr>
<td>36.212 Planning Studies</td>
<td>10</td>
<td>12</td>
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<tr>
<td>36.131 Communication Techniques</td>
<td>3</td>
<td>3</td>
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<tr>
<td>36.453 History of Cities</td>
<td>2</td>
<td>3</td>
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<tr>
<td>36.232 Environmental Science 1</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>36.245 Land Development Process</td>
<td>2 ½</td>
<td>3</td>
</tr>
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<td>26.000 General Studies Elective</td>
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Year 2

<table>
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<tr>
<td>36.213 Local Planning 1</td>
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<tr>
<td>36.461 Engineering</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>36.233 Environmental Science 2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>26.000 General Studies Elective</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>36.214 Local Planning 2</td>
<td>10</td>
<td>12</td>
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<tr>
<td>37.224 Landscape Architecture</td>
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<td>36.253 Environmental Science 3</td>
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<tr>
<td>36.452 History of Town Planning</td>
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<td>3</td>
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<tr>
<td>20.000 General Studies Elective</td>
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### Undergraduate Study

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<th>Credit points for Honours</th>
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<tbody>
<tr>
<td>Session 1</td>
<td>36.215 Planning Law and Administration</td>
<td>12</td>
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<tr>
<td></td>
<td>36.225 Public Policy and Urban Government</td>
<td>2</td>
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<tr>
<td></td>
<td>36.234 Urban Design</td>
<td>3</td>
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<tr>
<td></td>
<td>36.235 Urban Sociology</td>
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<tr>
<td></td>
<td>36.299 Introduction to Social Planning</td>
<td>1</td>
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<tr>
<td></td>
<td>20</td>
<td>26</td>
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| Session 2 | 36.503 Practical Experience | 3 | — |

<table>
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<tr>
<th>Year 4</th>
<th>Hours per week</th>
<th>Credit points for Honours</th>
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<tr>
<td>Session 1</td>
<td>36.503 Practical Experience</td>
<td>3</td>
</tr>
<tr>
<td>Session 2</td>
<td>36.218 Regional Planning 1</td>
<td>12</td>
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<tr>
<td></td>
<td>36.228 Transportation Planning</td>
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<tr>
<td></td>
<td>36.244 Economic Issues in Planning</td>
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<tr>
<td></td>
<td>36.8100 Planning Elective(s)*</td>
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<tr>
<td></td>
<td>20</td>
<td>24</td>
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</table>

| Session 2 | 36.8207 Urban Studies | 4 | 4 |
| | 36.8307 Urban Studies | 4 | 4 |
| | 36.8103 Regional Planning 3 | 4 | 4 |
| | 36.8203 Regional Planning 3 | 4 | 4 |
| | 36.8303 Regional Planning 3 | 4 | 4 |
| | 36.8108 Social Planning | 4 | 4 |
| | 36.8208 Social Planning | 4 | 4 |
| | 36.8308 Social Planning | 4 | 4 |
| | 36.8112 Transport and Environmental Management | 4 | 4 |
| | 36.8212 Transport and Environmental Management | 4 | 4 |

<table>
<thead>
<tr>
<th>Year 5</th>
<th>Hours per week</th>
<th>Credit points for Honours</th>
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</thead>
<tbody>
<tr>
<td>Session 1</td>
<td>36.219 Regional Planning 2</td>
<td>10</td>
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<tr>
<td></td>
<td>36.437 Survey Camp</td>
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<td></td>
<td>36.491 Thesis</td>
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<td>36.8200 Planning Elective(s)*</td>
<td>4</td>
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<tr>
<td></td>
<td>21</td>
<td>19</td>
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</tbody>
</table>

| Session 2 | 36.491 Thesis | 13 | 17 |
| | 36.462 Planning in Third World Countries | 1 | 2 |
| | 36.210 Professional Practice | 1 | 2 |
| | 36.8300 Planning Elective(s)* | 4 | 4 |
| | 19 | 25 |

| *The following planning electives are offered subject to demand and availability. |

<table>
<thead>
<tr>
<th></th>
<th>Hours per week</th>
<th>Credit points for Honours</th>
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<tbody>
<tr>
<td>36.8102 Local Planning 3</td>
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<td>36.8202 Local Planning 3</td>
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<td>36.8302 Local Planning 3</td>
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<td>4</td>
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<td>36.8101 Residential Planning</td>
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<td>36.8201 Residential Planning</td>
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<tr>
<td>36.8301 Residential Planning</td>
<td>4</td>
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</table>

Note: Due to the revision of the course, there is a transition period during which some subjects may be taught in different sessions than those indicated above, while other subjects may be phased in progressively. Details will be provided prior to enrolment.
A subject is defined by the Professorial Board as 'a unit of instruction approved by the University as being a discrete part of the requirements for a course offered by the University'.

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

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

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

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

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

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

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

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

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

Information Key
The following is the key to the information which may be supplied about each subject:
- S1 (Session 1); S2 (Session 2)
- F (Session 1 plus Session 2, i.e. full year)
- S1 or S2 (Session 1 or Session 2, i.e. choice of either session)
- SS (single session, but which session taught is not known at time of publication)
- CCH class contact hours
- L (Lecture, followed by hours per week)
- T (Laboratory/Tutorial, followed by hours per week)
- hpw (hours per week)
- C (Credit or Credit units)
- CR (Credit Level)
- DN (Distinction)
<table>
<thead>
<tr>
<th>School, Department etc</th>
<th>Faculty</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 School of Physics*</td>
<td>Science</td>
<td>46</td>
</tr>
<tr>
<td>2 School of Chemistry</td>
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<td>4 School of Materials</td>
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<tr>
<td>Science and Engineering</td>
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<tr>
<td>5 School of Mechanical</td>
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<tr>
<td>and Industrial Engineering</td>
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<td>6 School of Electrical</td>
<td>Engineering</td>
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<td>Engineering and Computer Science</td>
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<td>7 School of Mines</td>
<td>Applied Science</td>
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<tr>
<td>(Mineral Processing and</td>
<td>Extractive Metallurgy and Mining Engineering)</td>
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<td>8 School of Civil</td>
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<tr>
<td>Engineering</td>
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<tr>
<td>9 School of Fibre Science and Technology</td>
<td>Applied Science</td>
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<tr>
<td>(Wool Science)</td>
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</tr>
<tr>
<td>10 School of Mathematics</td>
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<td>Biological Sciences</td>
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<tr>
<td>13 School of Fibre Science and Technology</td>
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<td>(Textile Technology)</td>
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<td>14 School of Accountancy*</td>
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<td>Professional Studies</td>
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<tr>
<td>18 School of Mechanical and Industrial Engineering</td>
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<td>(Industrial Engineering)</td>
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<td>21 Department of Industrial Arts</td>
<td>Architecture</td>
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<tr>
<td>23 School of Nuclear Engineering</td>
<td>Engineering</td>
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<tr>
<td>25 School of Mines (Applied Geology)</td>
<td>Applied Science</td>
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</tr>
<tr>
<td>26 Department of General Studies</td>
<td>Board of Studies in General Education</td>
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</tr>
<tr>
<td>27 School of Geography*</td>
<td>Applied Science</td>
<td>59</td>
</tr>
<tr>
<td>28 School of Marketing</td>
<td>Commerce</td>
<td>60</td>
</tr>
<tr>
<td>29 School of Surveying*</td>
<td>Engineering</td>
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</tr>
<tr>
<td>30 Organizational Behaviour</td>
<td>Commerce</td>
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</tr>
<tr>
<td>31 School of Optometry</td>
<td>Science</td>
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<tr>
<td>32 Centre for Biomedical Engineering</td>
<td>Engineering</td>
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<tr>
<td>35 School of Building</td>
<td>Architecture</td>
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<td>36 School of Town Planning</td>
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<td>66</td>
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<tr>
<td>37 School of Landscape Architecture</td>
<td>Architecture</td>
<td>70</td>
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<tr>
<td>38 School of Biological Technologies (Food Science)</td>
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<td>39 Graduate School of the Built Environment</td>
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<td>40 Professional Board</td>
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<tr>
<td>41 School of Biochemistry</td>
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<td>42 School of Biological Technologies (Biotechnology)</td>
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<td>43 School of Botany*</td>
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<tr>
<td>44 School of Microbiology</td>
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**Undergraduate Study: Subject Descriptions**

*Subjects also offered for courses in this handbook*

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**School, Department etc** | **Faculty** | **Page**
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1 School of Physics* | Science | 46
2 School of Chemistry | Science | |
4 School of Materials Science and Engineering | Applied Science | |
5 School of Mechanical and Industrial Engineering | Engineering | |
6 School of Electrical Engineering and Computer Science | Engineering | |
7 School of Mines (Mineral Processing and Extractive Metallurgy and Mining Engineering) | Applied Science | |
8 School of Civil Engineering | Engineering | |
9 School of Fibre Science and Technology (Wool Science) | Applied Science | |
10 School of Mathematics | Science | |
11 School of Architecture | Architecture | 46
12 School of Psychology | Biological Sciences | |
13 School of Fibre Science and Technology (Textile Technology) | Applied Science | |
14 School of Accountancy* | Commerce | 59
15 School of Economics | Commerce | |
16 School of Health Administration | Professional Studies | |
17 Biological Sciences | Biological Sciences | |
18 School of Mechanical and Industrial Engineering (Industrial Engineering) | Engineering | |
21 Department of Industrial Arts | Architecture | |
23 School of Nuclear Engineering | Engineering | |
25 School of Mines (Applied Geology) | Applied Science | |
26 Department of General Studies | Board of Studies in General Education | |
27 School of Geography* | Applied Science | 59
28 School of Marketing | Commerce | 60
29 School of Surveying* | Engineering | |
30 Organizational Behaviour | Commerce | |
31 School of Optometry | Science | |
32 Centre for Biomedical Engineering | Engineering | |
35 School of Building | Architecture | 60
36 School of Town Planning | Architecture | 66
37 School of Landscape Architecture | Architecture | 70
38 School of Biological Technologies (Food Science) | Applied Science | |
39 Graduate School of the Built Environment | Architecture | |
40 Professional Board | | |
41 School of Biochemistry | Biological Sciences | |
Architecture

11.4101 Principles of Design

Prerequisite: Nil.

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

11.4120 Design Theory 3

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

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.

Physics

1.931 Physics 1 (Building)

4 credit points; compulsory. Prerequisites: nil.


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

Architecture

Architectural Design — General

11.4102 Design Theory 1

Prerequisites: 11.4101, 11.4201.

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

11.4103 Design Theory 2

Prerequisite: 11.4102.

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

11.4104 Design Theory 3

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.

11.4124 Geometry and Design

Prerequisite: 11.4103.

11.4126 Interior Design 2  
Prerequisite: 11.4125.


11.4127 Design for Conservation  
Prerequisite: 11.4304, 11.4414.

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

11.4128 Computer-Aided Design  
Prerequisite: 11.4632.

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

11.4129 Research and Survey Methods  
Prerequisite: 11.4103.

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

11.4130 Criticism and Evaluation  
Prerequisite: 11.4103.

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

11.4131 Principles of Dwellings  
Prerequisite: 11.4102.

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

11.4132 Synthesis  
Prerequisite: 11.4103. Excluded: 11.4122.

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

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

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

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

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

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

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

Architectural Design — Specific

11.4201 Living Unit  
Prerequisite: Nil.

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

11.4219 Design A (Community Facilities 1) C6
Prerequisites: 11.4102, 11.4303, 11.4401, 11.4403.

Emphasis on concept and creativity while realizing the whole-
ness of design. Awareness from the outset of the interaction of func-
tional considerations with three-dimensional conceptual design. Relevant attitudes in western society; the overlap of cul-
tural, educational and recreational issues.

Buildings small in size and with a low degree of complexity, such as cultural or educational buildings for small numbers of people, catering for easily understood functions and familiar patterns of behaviour.

11.4229 Design B (Residential Facilities 1) C6
Prerequisites: 11.4219 or equivalent*, 11.4414.


Projects of modest size and only a limited degree of complex-
ity, such as a detached house for a single family in a known sit-
uation, followed by a small group housing development for groups of people in familiar patterns of behaviour, with empha-
sis on site use, movement patterns, identity, territoriality, and the spatial implications of privacy.

11.4239 Design C (Community Facilities 2) C6
Prerequisites: 11.4103, 11.4229 or equivalent*.


Projects of medium size and of moderate complexity and diffi-
culty, such as commercial, industrial and institutional buildings.

11.4249 Design D (Residential Facilities 2) C6
Prerequisites: 11.4239 or equivalent*, 11.4304, 11.4305, 11.4306, 11.4407, 11.4415.

The assembly of a multiplicity of elements into a coherent whole, on a medium to large scale. Resolution of conflicting demands contained in a brief. Detailed studies of human needs of the community and the individual. Application of structural and constructional principles on a medium to large scale. Climate control, building services.

Projects of medium to large size with a substantial degree of complexity and difficulty, such as a detached house with special requirements relating to occupants, site, climate; urban and suburban medium- and high-density housing developments; hotels and resorts; adaptive re-use of existing buildings for residential purposes.

11.4259 Design E (Community Facilities 3) C8
Prerequisites: 11.4249 or equivalent*, 11.4408.

This subject will emphasize a comprehensive approach to architectural design through the integration of material con-
tained in all subject-areas in the course.

Projects will extend the student’s ability to resolve complex problems, to address issues of urban design and to respond creatively to the challenges of contemporary life.

11.4260 Design F C6
Prerequisites: 11.4249 or equivalent*.

Emphasis on the detailed resolution of the design of a relatively small building. Qualitative studies of space, light, colour, tex-
ture, structure, construction and services; selection of materials and finishes (external and internal); furniture and fittings; measures to control heat, light and sound.

11.4261 Design G C8
Prerequisites: 11.4259 or equivalent*.

Exploration of design issues; aspects of form, geometry and meaning. The subject will demand a depth of perception and understanding—and consequently of resolution—beyond that sought in all other subjects in the Design—Specific stream.

*See footnotes under Schedule of Subjects earlier in this book.

Architectural Environment

11.4301 Contextual Studies C5
Prerequisite: Nil.

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

11.4303 Introduction to Architectural Science C4
Prerequisite: Nil.

An introduction to environmental design methods for total human comfort. A bioclimatic approach to design; Studies of climate and its effects in and around buildings; geometry of sunlight, sun control and its influence on the design of buildings. Experimental work and projects.

11.4304 Thermal Design of Buildings C3
Prerequisite: 11.4303.

Thermal comfort, solar radiation effects on opaque and trans-
parent building elements, air movement, thermal properties of building materials, condensation and vapour barriers, thermal storage effects. The implications of sun and climate in the design of comfort conditions in buildings. Experimental work and application exercises.
11.4305 Lighting of Buildings
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 application exercises.

11.4306 Acoustics of Buildings
Prerequisite: 11.4303.

Basic theory of sound propagation in and around buildings; criteria for design; subjective and objective assessment of sounds; methods for noise control; introduction to room acoustics. Experimental work and application exercises.

11.4307 History of Architecture and Design
Prerequisite: Nil.

General treatment of the history of architecture and design from early times to the present; the relationships of man and nature; influences of religion, society, culture, climate, materials and technology. Seminars and projects.

11.4308 Western Architecture
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
Prerequisite: 11.4308.

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

11.4320 Geometry
Prerequisite: Nil.

Plane curves, conics and surfaces of revolution; quadric surfaces; ruled and warped surfaces; convex bodies; spherical trigonometry; projective configurations. Tutorials and projects.
11.4330 Modern Architecture  C2
Prerequisite: 11.4308.

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

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

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

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

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

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

11.4336 Measured Studies of Historic Stuctures  C3
Prerequisites: 11.4308, 11.4603.

It is particularly appropriate if this elective is taken in conjunction with 11.4309 Australian Architecture, to which it is a natural complement.

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

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

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

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

11.4343 Urban Planning  C4
Prerequisite: 36.411.

11.4344 Landscape Planning  C4
Prerequisite: 11.4303.
1. Analysis and systems developed to use natural science date for landscape planning. 2. Techniques for land-use planning based upon an analysis of natural phenomena and resources. 3. Case studies.

11.4345 Urbanism  C2
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.
11.4346 Australian House (Measured Drawing)  C2
Prerequisite: 11.4331.

The production of a measured drawing of an existing house built during the period covered by 11.4331 The Australian House since 1900. Plans, elevations, section and a selection of details. Format and medium are to comply with established standards.

11.4347 Australian House (Report)  C2
Prerequisite: 11.4331.

The production of a report on a house built during the period covered by 11.4331 The Australian House since 1900. History, planning, construction, materials, stylistic characteristics and aesthetic qualities.

Technology

11.4401 Principles of Construction  C6
Prerequisite: Nil.

Analysis of the principles of construction with particular reference to small-scale building. The site — selection, analysis, measurement. Components and elements of buildings. Materials and construction detailing. Practical construction project.

11.4402 Structures and Materials  C4
Prerequisite: Nil.

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

11.4403 Principles of Structures  C4
Prerequisite: Nil.

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

11.4407 Services A  C3
Prerequisites: 11.4303, 11.4414.

Sources and distribution of water, wastes and energy supplies. Application of electric power, hydraulics, vertical transport and fire protection in buildings. Equipment selection and space allocation. Projects and seminars.

11.4408 Services B  C3
Prerequisites: 11.4304, 11.4415.

Air conditioning, heating and ventilating of buildings. Design of systems. Selection of equipment and allocation of space. Projects and seminars.

11.4414 Construction A  C5
Prerequisites: 11.4401, 11.4402.


11.4415 Construction B  C5
Prerequisites: 11.4414, 11.4416.


11.4416 Structures  C4
Prerequisites: 11.4402, 11.4403.


11.4420 Technology for Low-rise Buildings  C5
Prerequisite: 11.4414.

Structural, constructional and services systems for low-rise buildings. A detailed study of interrelationships both within and between the various systems, together with an overview of the influence of technologically-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 for High-rise Buildings  C5
Prerequisite: 11.4415.

Structural, constructional and services systems for high-rise buildings. A detailed study of interrelationships both within and between the various systems, together with an overview of the influence of technologically 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 for Low-cost Housing  
**Prerequisite:** 11.4416.

An analysis of low-cost housing, the market and industry, government policies. Structural, constructional and service systems and review of projection, methods and resource utilization related to non co-ordinated and dimensionally co-ordinated systems. Cost analysis of various systems and building forms. The detailed study of those technological systems as applied to a housing complex. Project.

11.4423 Rationalized Building Systems  
**Prerequisite:** 11.4415.

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

11.4424 Construction Planning and Management  
**Prerequisites:** 11.4407, 11.4408.

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

11.4425 Earth Construction A  
**Prerequisites:** 11.4402, 11.4303.

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

11.4426 Earth Construction B  
**Prerequisite:** 11.4425.

The design and construction of a small structure using earth as a major material and the monitoring of environmental conditions in similar structures.

11.4430 Integration of Services  
**Prerequisites:** 11.4407, 11.4408.

The incorporation of plant and accessories in the building fabric. Economic routing, noise; identification; incompatibility; outlets. Project.

11.4440 Building Materials A  
**C2**

**Prerequisite:** 11.4414.


11.4441 Building Materials B  
**C5**

**Prerequisite:** 11.4440.

The properties and application of building materials. An advanced study of detailing and constructional aspects of materials, related to their properties. Project.

11.4450 Advanced Structural Analysis  
**C4**

**Prerequisites:** 11.4416, 11.4602.

Computer-based methods of analysis for linear structures. Tutorials and project.

11.4451 Advanced Structural Design  
**C4**

**Prerequisite:** 11.4415.

Detailed structural design for common engineering materials. Tutorials and project.

11.4452 Models Analysis and Form-finding  
**C3**

**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  
**C5**

**Prerequisite:** 11.4416.

Selected areas of surface and spatial structures: reticulated structures, cable structures, tensegrity structures, folded surface structures, shell structures, stressed skin structures, tent and pneumatic structures. Seminars, laboratory work and project.

11.4454 Surface and Spatial Structures B  
**C5**

**Prerequisite:** 11.4453.

Design application of 11.4453 Surface and Spatial Structures A, individual or group work.

11.4455 Technology Research A  
**C5**

**Prerequisites:** 140 credit points and 11.4416.

Supervised individual or group research at advanced level in a particular field of technology, such as lightweight structures, structural materials and methods, system building, alternative technology.
11.4456 Technology Research B  
Prerequisite: 11.4455.
Additional supervised individual or group research at advanced level in a particular field of technology, such as lightweight structures, structural material and methods, system building, alternative technology.

11.4457 Workshop Practice  
Prerequisite: Nil.
Safe working practices using selected woodworking and metalworking machines and tools. Conducted during the evenings of the first weeks of certain semesters.

11.4458 Construction Documentation  
Prerequisites: 11.4407, 11.4415.
The production of graphic documentation for the construction of a selected modern high-rise building; documentation methods; construction details; material specifications. Projects.

Practice

11.4510 Practice and Management  
Prerequisite: Nil.
1. The Architects' Registration Act and registration. 2. Code of professional conduct. 3. The other design consultants. 4. The client, the brief, forms of agreement and fees. 5. Regulations and codes controlling buildings. 6. Legal implications of architectural practice.

11.4511 Building Economics and Specifications  
Prerequisites: 11.4414, 11.4510.

11.4512 Contract Administration A  
Prerequisites: 11.4414, 11.4510.
1. The selection of a builder, nominated subcontractors and suppliers. 2. The administration by an architect of a selected standard form of building contract from the signing of the contract to the issue of the final certificate; responsibilities and liabilities of the architect, consultants, proprietor and the builder. 3. Post-contract activities. 4. Case studies. 5. Seminars and assignments.

11.4513 Contract Administration B  
Prerequisites: 11.4512 and 117 credit points.
1. Detailed comparison of the various forms of building contract in current use. 2. Responsibilities and liabilities of architect, consultants, proprietor and builder. 3. Professional defensive measures. 4. Case studies. 5. Assignments.

11.4514 Management for Architects  
Prerequisites: 11.4513, 11.4703.
1. Introduction to management theory. 2. The structure and organization of an architectural office, aspects of company and partnership law and insurance. 3. Business principles and management procedures relevant to an architectural office. 4. Assignments.

11.4520 Management Systems and Finance  
Prerequisite: 11.4514.
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  
Prerequisite: 11.4511.

11.4522 Building Economics and Development  
Prerequisite: 11.4511.
Architecture

11.4524 The Architect and the Law C2
Prerequisite: 11.4513.

11.4525 Project Management C3
Prerequisite: 11.4513.
1. Principles of scientific management and organization, individual group behaviour, management functions, planning, organizing, staffing, directing, co-ordinating, monitoring, appraisals and evaluation. 2. Operations research techniques; network analysis, multi-activity charting. 3. Decision theory and procedures. 4. Contract and contract documents. 5. Industrial relations, employment. 6. Industrial organization. 7. Seminars.

11.4526 Industrial Relations C2
Prerequisite: 11.4512.
1. An introduction and review of the history, methodology and emphasis of the basic behavioural disciplines; the biological basis of human behaviour; the significance of socio-cultural influences and determinants, need satisfaction; the origins, nature and meanings of motivation and emotional processes. The dynamics of conflict and frustration. 2. The implications of these issues and theories in the problems of industrial relations on the management of the site, office and work force. 3. Seminars.

Communication

11.4601 Introduction to Communication C6
Prerequisite: Nil.
Introduction to communication theory, its principles and history. Practice in clear, critical thinking; elementary problem-solving; logical development and presentation of arguments orally and in writing. Introduction to techniques and conventions of draughting and the use of instruments. Elementary plane and solid geometry and surface development. Objective depiction in graphic terms. Observation, analysis and graphic statement of aspects of form, indoor and outdoor. Characteristics of illumination systems. Elementary perspective. Emphasis on direct drawing in a variety of media involving methods and techniques employed, from sketches to graphic studies in both traditional and contemporary styles.

11.4602 Introduction to Computing C2
Prerequisite: Nil.
Introduction to the computer as a problem-solving tool with emphasis on its application to architecture; description of computing hardware including peripheral devices of interest to the architect; opportunity to gain experience in the use of computing facilities; development of basic programming skills.
11.4625 Constructional Geometry C3

Prerequisites: One from Group A, 11.4603.

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

11.4626 Architectural Ceramics and Sculpture C3

Prerequisite: Nil.

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

11.4627 Computer Graphics C4

Prerequisite: 11.4632.

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

11.4628 Contemporary Styles in Art C4

Prerequisite: 11.4629.

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

11.4629 Graphic Art C4

Prerequisite: 11.4604.


11.4631 Advanced Graphic Concepts C4

Prerequisite: 11.4620 or 11.4629.

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

11.4632 Computer Programming and Graphics C6

Prerequisites: 11.4602, 94 credit points. Excluded: 11.4627 (1982 or earlier).

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

11.4633 Architectural Drawing and Rendering C4

Prerequisites: 11.4603, one from Design Specific, Group A.


11.4634 Drawing C4

Prerequisites: 11.4601, 11.4603.

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

11.4635 Painting C4

Prerequisites: 11.4601, 11.4603.

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

11.4636 Computer-aided Drafting C4

Prerequisite: 140 credit points.

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

11.4701 Graduation Project  
Prerequisite: 117 credit points.

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

11.4703 Practical Experience  
Prerequisite: 117 credit points.

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

No other subject may be taken concurrently with 11.4703 Practical Experience.

11.4705 Honours Project  
Prerequisite: 140 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.

11.4707 Research Methods  
Prerequisite: 156 credit points.

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

11.4708 Dissertation  
Prerequisite: 11.4707.

An individual study, on an approved topic, taken under staff supervision, with the purpose 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. It requires the gathering of data, analysing that material and reaching a conclusion. The work is typewritten, in concise and clear English, properly ordered and referenced, and presented in A4 format. The work is normally about 10,000 words, illustrated as necessary.

General Studies Subjects

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

Other Elective Studies

11.4702 Thesis  
Prerequisite: 140 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.

11.4704 Architectural Research  
Prerequisite: 140 credit points.

An elective designed for students wishing to pursue an independent course of study in a field of architecture not falling specifically within the domain of any existing elective. Students are required to present a detailed program of study for approval by the Professor of Architecture at the commencement of the semester preceding that in which it is intended to enrol in this elective.
11.4706 Architecture Graduation Project  C20
Prerequisite: 187 credit points. Selection on merit.

This semester unit is available to students who wish to culminate their studies in a project in which a scheme is resolved in depth in selected and approved area(s) 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 11.4708 Dissertation with the Architecture Graduation Project by selecting a thesis topic which provides the detailed brief or technological or management aspects applicable to the Architecture Graduation Project.

Appropriate Technology

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

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

11.4720 Appropriate Technology 1  C3
Prerequisites: 40 credit points including 11.4301, 11.4303, 11.4402.

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

11.4721 Appropriate Technology 2  C4
Prerequisite: 11.4720.

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

11.4722 Appropriate Technology 3  C10
Prerequisites: 94 credit points including 11.4721, 11.4457.

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

Heritage Studies

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

11.4730 Industrial Archaeology 1  C4
Prerequisite: 40 credit points.

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

11.4731 Industrial Archaeology 2  C4
Prerequisite: 11.4730.

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

11.4732 Traditional Technology 1  C4
Prerequisite: 40 credit points.

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

11.4733 Traditional Technology 2  C5
Prerequisite: 11.4732.

The social and industrial organization of and the impact of mechanization on traditional technologies. The evolution of the artist craftsman from the traditional crafts. Design and production methods and techniques in selected traditional technologies. Field work and laboratory. Lost wax casting, enamelling, wood turning and carving. Industrial and studio visits.
11.4734 Traditional Building Technology \hspace{1cm} C4

*Prerequisite: 11.4732.*

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

11.4735 Traditional Technologies of Pakistan \hspace{1cm} C4

*Prerequisite: 11.4732.*


11.4736 Traditional Technology 3 \hspace{1cm} C10

*Prerequisites: 11.4402, 11.4733, 11.4734 or 11.4735.*

Sociological, technological and design aspects of traditional technology. The methodologies of the social and physical sciences and their application to traditional technology. Advance studies of selected traditional technologies. Field work and laboratory. Analysis and recording of traditional technology and the conduct of advanced replication experiments.

**Industrial Design**

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

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

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

11.4740 Industrial Design 1 \hspace{1cm} C6

*Prerequisite: 40 credit points.*

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

11.4741 Industrial Design Methods A \hspace{1cm} C2

*Prerequisite: 11.4740.*

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

11.4742 Industrial Design Methods B \hspace{1cm} C5

*Prerequisites: 11.4740, 11.4741.*

The systematic application of industrial design research, practice, techniques and methodologies to the analysis, briefing and solving of a complex problem involving product systems.

11.4743 Industrial Design Case Histories \hspace{1cm} C2

*Prerequisites: 11.4740, 11.4741.*

A series of case histories covering a selected range of industrial design and practice areas. The cases are given by practitioners in industrial design from the University, design consultancies, and the design studios of manufacturing companies. The methodologies used in the cases and the resultant products are studied and comparisons are made with theoretical methodologies. Studies are made to determine possible differences in the final product that could have resulted from the application of different methodologies.

11.4744 Industrial Design 2 \hspace{1cm} C7

*Prerequisite: 11.4740.*

Studies of the design applications of selected materials, project work involving design problems intrinsically concerned with particular materials.

11.4745 Industrial Design 3A \hspace{1cm} C10

*Prerequisites: 11.4742, 11.4743, 11.4744.*

The application of industrial design research and practice methodologies to the study and solving of selected design problems.

11.4746 Industrial Design 3B \hspace{1cm} C10

*Prerequisites: 11.4742, 11.4743, 11.4744.*

As for 11.4745.

11.4747 Industrial Design Special Project \hspace{1cm} C10

*Prerequisites: 140 credit points. Selection on merit.*

An elective subject intended for students wishing to pursue an independent course of study within an area of industrial design not falling within the domain of any existing elective. Students are required to present a detailed program of study for approval to the Head of School during the semester preceding that in which it is intended to enrol in this elective.
Ceramic Design

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

11.4750 Pottery and Ceramics C5
Prerequisite: 11.4402.

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

11.4751 History of Ceramics C4
Prerequisite: 11.4307.

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

11.4752 Pottery and Ceramic Technology A C5
Prerequisites: 11.4402 or equivalent and either 11.4750 or 11.4626.

Ceramic body formulation and calculations. The physical and chemical characteristics of earthenware, stoneware and porcelain and the effects of firing. Design and production methods, industrial visits. Laboratory and studio: Ceramic production methods. Ceramic body testing.

11.4753 Ceramic Kilns C10
Prerequisite: 11.4752.

Kiln types, design and construction. Firing techniques. Combustion efficiency and energy saving. Laboratory and studio: Firing, building and maintenance of a variety of kilns.

11.4754 Pottery Management C10
Prerequisite: 11.4752.

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

11.4755 Pottery and Ceramic Technology B C5
Prerequisites: 11.4402 or equivalent and either 11.4750 or 11.4626.

Ceramic glaze formulation and calculations. The physical and chemical characteristics of glass and cooling. Body-glaze interaction. Design and production methods, industrial visits. Laboratory and studio: Ceramic production methods. Ceramic glaze testing.

Accountancy

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

Prerequisite: Nil.

An introduction for non-commerce students to the nature, purpose and conceptual foundation of accounting, information systems including accounting applications. Analysis and use of accounting reports.

14.002 Introduction to Accounting B S2 L2
Architecture: 2 credit points; compulsory for BBuild degree course students.

Prerequisite: 14.001.

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

Geography

27.818 Australian Environment and Human Response S1 L2T2
Prerequisite: Nil. Excluded: 27.010, 27.030, 27.801, 27.295, 27.111.

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

29.411 Surveying for Architects and Builders S1 L1T1½ C2
A compulsory subject. Prerequisites: nil.


29.901 Introduction to Mapping S1 L1 T½

Building

Construction Studies Stream

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

35.202 Soil Mechanics for Building S1 L1T1 C2
Compulsory. Prerequisite: Nil.

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

35.500 Building Graphics S1 L2T2 C6
Compulsory. Prerequisite: Nil.

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

35.501 Construction 1 (Domestic Buildings) S1 L2T1 C5
Compulsory. Prerequisite: 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 2 (Building Practice) S2 T4 C5
Compulsory. Prerequisite: 35.501.

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

35.503 Construction 3 (Low-rise Buildings) S1 L2T2 C5
Compulsory. Prerequisite: 35.502.

Small multi-storey buildings from the functional and construction operation viewpoints. Concepts from Construction I are further developed and new concepts are introduced: site work procedures; concrete as a building material; foundations and footings; types of wall construction; basement, ground floor and upper floor construction; methods of roofing, waterproofing; construction of staircases; joinery; steel as a building material; internal finishes; minor construction plant, formwork.

35.504 Construction 4 (Factory Buildings) S2 L2T2 C5
Compulsory. Prerequisite: 35.503.

Functional requirements and methods of constructing light industrial buildings: further development of structural steel, large span factory roofing, welding techniques, fire requirements, cladding methods, installation of cranes and machine footings, scaffolding, relevant builder's plant and equipment.

35.505 Construction 5 (High-rise Buildings) S1 L2T2 C5
Compulsory. Prerequisite: 35.504.

Functional requirements of high-rise buildings and major building projects; structural systems, enclosure systems and environmental control systems and their inter-relation from a building standpoint; various methods and materials commonly used to solve functional demands; comparison of systems of construction; building loads and load factors; stability of structures and structural components; creep, settlement and other movement; principles of fire protection in high-rise projects; cladding in concrete, metal and glass; ceiling and partition systems; integration and co-ordination of services.
Factors influencing change in building techniques: technological change in building; implication of level of demand; new products, materials and processes; the regulatory system; the effect of government policy. The implications of changing techniques; the changing structure of work, skills loss, methodologies for co-ordinating building components; the evaluation of performance, social consequences of industrialization. Teaching centres around case studies of Australian and overseas building techniques, building systems, construction systems, portable buildings and mobile homes.

The study of special advanced topics in building construction on either a group or individual basis.

Loads on structures; external and internal forces; conditions of force and moment equilibrium. Analysis of statically determinate beams; bending moment and shear force diagrams; bending and shear stresses; deflections. Qualitative structural behaviour of arch, cable, membrane, plate and shell structures; the function of bracing.

Analysis of statically determinate frames; principles of structural design. Design of beams and columns in timber and steel for strength, deflection and stability criteria; combination of axial and bending stresses. Joints in timber and steel structures: glueing, bolting, nailing, riveting, welding.

Load-paths in structures from external loads to supports. Principles of ultimate strength design in reinforced concrete; design of reinforced concrete beams, slabs, columns, and footings for strength and serviceability criteria; detailing of reinforcement. Introduction to prestressed concrete. Strength and stability of temporary structures; principles of formwork and falsework design.

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.

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.

The distribution of urban and regional centres in Australia. Factors which have shaped and will continue to shape the growth and quality of the built environment. Elements forming the urban environment viewed as the components of a complex system. Patterns of land-use formed by the physical structures in which people live, work and play. The interaction between land-use and transport and the effect of energy costs on land-use patterns. Population growth and structure in an urban and regional context. The effect of population change, household formation rates and other factors on the demand for housing in urban and regional areas. Possible futures for the built environment and the demand for commercial and industrial building. The Australian building stock. Quantitative methods used in evaluating and planning the built environment. The quality of an urban environment. Socio-economic and other indicators of amenity. Possible conflicts between the man-made and natural environments. Environmental impact statements. Efficient utilization of resources in the building process. Characteristics of the built environment in the Sydney region and its development over the last 50 years.
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 micro-environment and the parameters that control it and the principles involved in creating a suitable human environment; the mathematical tools and computer techniques necessary for the efficient design, construction, and operation of modern buildings.

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

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

35.604 Building Science 4 (Plastics)  S1 L2T1 C3
Prerequisite: Nil.
Not offered in 1987.
Polymers in building: history and development of polymers, chemical structure, properties and applications of thermoplastics and thermosets, forming and design, reinforced plastics, fabrication techniques, building adhesives, elastomers, modified concrete.

35.605 Building Science 5 (Concrete)  S2 L2T1 C3
Compulsory. Prerequisite: Nil.
Concrete technology: cement aggregates, water and admixtures, properties of fresh concrete, strength considerations, durability, shrinkage and creep, special concretes, non-destructive testing, mix design.

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

35.607 Building Science 7 (Thermal)  S2 L2T1 C3
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.

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

35.651 Services 1 (Hydraulics)  S1 L2 C3
Compulsory. Prerequisite: Nil.
Hydraulic services pertaining to small and medium size projects; hot and cold water reticulation; sewer and storm water drainage; sanitary plumbing, introduction to fire fighting equipment and services; regulatory authorities and requirements.

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

35.653 Services 3 (Integration)  S2 L1T3 C4
Prerequisites: 35.651, 35.652.
Not offered in 1987.
35.670 Mathematics for Builders  S1 L4T2 C4
Compulsory. Prerequisite: Nil.

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

Management Studies Stream
Building management includes management in theory and management
in practice. It equips the student with well founded principles which he
or she can apply to operational situations in the building process.

35.701 Management 1 (Management Principles)  S1 L2 C4
Compulsory. Prerequisite: Nil.

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

35.702 Management 2 (Professional Practice)  S2 L2 C4
Compulsory. Prerequisite: 35.701.

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

35.703 Management 3 (Planning)  S1 L2T1 C4
Compulsory. Prerequisites: 35.502, 35.603 or 35.751, 35.702.

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

35.704 Management 4 (Contracts, Site Administration)  S2 L2 C4
Compulsory. Prerequisite: 35.703.

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

35.705 Management 5 (Project Management)  S1 L2 C4
Compulsory. Prerequisite: 35.704.

Project management and site organization. Theory and concept of
project management. The systems approach to construction
planning. Alternative organization of the building process. Appli-
cation of project management in building. Management of pre-
design, design and construction activities. Strategic planning,
construction strategy. Planning of materials handling, repetitive
work and services. Project management control. Management
games.

35.706 Management 6 (Personnel Management)  S1 L2 C4
Prerequisite: 35.704.

People management. Human motivation, personnel management.
Occupational health and safety in building. Industrial relations.
Employers and employees; employers and employer groups.
Unions and unionism. Industrial law, conciliation and arbitration,
industrial disputes.

35.707 Management 7 (Corporate Strategy)  S2 L3 C4
Compulsory. Prerequisites: 35.704, 35.832 or 35.842.

Corporate strategy and the overall general management of an
enterprise in the building and development industry, derivation
of policy by top management together with planning of policy
implementation; tax planning. There is an integration and appli-
cation 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 8 (Marketing)  S2 L3 C4
Prerequisites: 35.704, 35.832 or 35.842.

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

35.720 Commercial Arbitration  S1 L2T1 C4
Prerequisite: 35.704.

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

35.721 Law for Builders 1
Compulsory. Prerequisite: Nil.
Law, including brief outline of sources of law in New South Wales and the system of judicial precedent. General principles of law of contracts. Contractual rights and obligation. Court structures; sale of goods and a general introduction to the law of bankruptcy. General principles of law of agency. Law of partnership.

35.722 Law for Builders 2
Compulsory. Prerequisite: 35.721.
General principles of insurance law. Law related to non-commercial succession to property. Real property and local government law, company and administrative law.

35.751 Introduction to Computing
Compulsory. Prerequisite: Nil.
Introduction to computer programming and applications. Description of computer hardware and peripheral equipment; use of time-sharing computing facilities; development of basic programming skills.

35.752 Computer Applications in Building
Compulsory. Prerequisite: 35.751.
Extensions of flowchart and program development via time-sharing processing with emphasis on structured programming and internal program documentation. Introduction to data file structures and access modes. Applications in quantity surveying, estimating and construction management.

35.753 Systems Analysis and Modelling
Prerequisite: 35.703.
Systems analysis methods. The systems approach of considering the interaction of processes forming part of a larger whole is introduced as a general concept applicable to a wide variety of planning and management problems. In particular, the systems analysis techniques of network analysis, mathematical programming, simulation and financial modelling are studied in relation to the planning, design and construction management of building projects.

35.754 Building Information Systems
Prerequisites: 14.001, 35.603 or 35.752.
The specification, development and use of computer based information systems in the management of building companies.

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

35.801 Quantity Surveying 1 (Measurement)
Compulsory. Prerequisite: 35.503.
Quantity surveying: historical background; functions of the quantity surveyor; the origin and development of the Australian Standard Method of Measurement of Building Works, its importance and application; methods of recording dimensions, checking and correlating plans and specifications; principles of measurement; measuring techniques for single storey construction; billing fundamentals of item descriptions; taking off quantities from plans and specifications.

35.802 Quantity Surveying 2 (Billing)
Compulsory. Prerequisites: 35.504, 35.870 or 35.871.
Advanced quantity surveying for the trades and hydraulic services; measuring techniques for multi-storey construction; detailed study of the Australian Standard Method of Measurement of Building Works, billing procedures for single items and complete trades; contract administration.

35.813 Quantity Surveying 3 (Cost Planning)
Prerequisite: 35.802.
Functions of the cost planner; liaison with consultants; cost planning techniques including practical exercises; cost control and design economics; professional practice.

35.831 Building Economics 1
Compulsory. Prerequisite: 1.
Introduction to building economics, the interrelationship between the national economy and the building industry; quantitative techniques and the interpretation of economic data, economic principles applied to aspects of the building industry; introductory investment analysis and decision theory.

35.832 Building Economics 2
Compulsory. Prerequisites: 35.831 or 35.840, 14.002.
Enterprise in the construction industry; depreciation; taxation; operating costs; economics of building plant; materials handling and ergonomics; capital investment appraisals; case studies and field research.
Economic advantages and disadvantages of conventional on-site construction and industrialized building components and system building. Financial controls used in the erection, management, maintenance and demolition of buildings. Case studies; advanced investment analysis; together with the nature of financial management; the business environment: financial analysis; planning and control; capital investment decisions; organization of the financial structure; operating and working capital management; growth and development; and the causes and prevention of financial stability and failure.

**35.867 Estimating 1**
Compulsory. Prerequisite: 35.503.

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

**35.868 Estimating 2**
Compulsory. Prerequisite: 35.603 or 35.752, 35.865 or 35.867.

Advanced estimating techniques, competitive tendering, contract cost adjustments; computer techniques applied to estimating.

**35.871 Building Specifications**
Compulsory. Prerequisite: 35.503.

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

**35.880 Development Project**
Compulsory. Prerequisites: 35.504, 35.832 or 35.842.

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

**35.890 Property Valuation**
Compulsory. Prerequisites: 35.503, 35.831 or 35.840.


**Special Requirements**

**35.900 Thesis (Building)**
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 it is 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. Note: thesis performance affects the award of the degree at Honours level. See Award of Honours under the School entry earlier in this Handbook.

**35.910 Industry Semester**
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.
The planning of those physical, social, and economic factors which affect the human being in his or her occupation of a piece of ground. The skills, techniques and philosophies relevant to undertaking planning activity at the level which most directly affects the individual — the area in the vicinity of their home. By a combination of lectures, seminars, projects and directed readings the subject shows how the individual relates to and is influenced by the local environment, and how the planner can act to design, improve and regulate that environment. Com- mences with the individual dwelling, the activities undertaken in it and the factors which impinge on its environment, and progresses to the locality: what it is and how people define it. The planning concept of a precinct is introduced and the difference is explored between a precinct and a neighbourhood. With this context set, planning studies are undertaken for both a new and an existing precinct.
36.218 Regional Planning 1  
Prerequisite: 36.215.

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

36.219 Regional Planning 2  
Prerequisite: 36.218.

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

36.491 Thesis

A specialized individual study taken under staff supervision with the object of allowing students either to gain knowledge in some aspect of town planning which is not covered in the course or to increase their knowledge of some aspect which has been covered. As such the thesis is essentially evidence of this individual study. The study does not require original experimental research for the purpose of discovering new facts or the testing of an hypothesis; neither is it an essay permitting the student's unsupported opinion. The thesis topic is submitted by the student for the approval of the Professor of Town Planning at the end of Year 4 of the course and the completed thesis is submitted for examination towards the end of Year 5.

Students participate in seminars on report and thesis writing during Year 5 and present progress reports on their theses at the seminars. The subject is not complete until a bound copy has been submitted.

Related Subjects

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

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

36.210 Professional Practice  
Planning as a profession, professional standards, ethics, preparing studies and plans, preparing and giving evidence, briefing and consulting, management, corporate planning, continuing education.

36.222 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.

36.225 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.

36.228 Transportation Planning  

36.232 Environmental Science 1  
Elements of the bio-physical environment which may have direct significance for man in his occupation of the earth. These elements are considered both as controls on man's activities and as targets for man's impacts, in ways relevant to the work of urban and regional planners. Physical processes directly related to planning problems; human occupation of areas subject to natural hazards; impact of urbanization on the environment; environmental issues in general; skills in map interpretation.
Introduction to methods used to incorporate consideration of physical environmental variables into the planning process.

**Aims to increase visual awareness and sensitivity; to learn about design components; and to develop some understanding of the effects of planning controls on the appearance of cities. Topics include the character and identity of areas as influenced by natural and man-made features; townscape elements (skyline, floorscape, wallscape, street furniture, vegetation, water and the synthesis of these); townscape in movement; the effects of light and shade and night time lighting and of wind and other climatic factors; pedestrianized urban spaces — their creation, function and appearance; the impact of new buildings, rehabilitation and reconstruction; the effects of the car and other forms of transport; varying perceptions of people; performance standards and other controls affecting appearance. Lectures, seminars, visual analysis exercises and urban design case studies and projects.**

**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.**

**The market mechanism and market failure. Macroeconomic policy, investment patterns and economic change in cities and regions. Financing urban services and the impact of growth on local government. Economic impacts of development proposals.**

**Introduction to land development process in N.S.W. Basics of investment analysis, elemental costing and marketing. Society, the market place, land development and the role of town planning.**

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

**Focus on the social component of the planning process, including participatory techniques of public interaction, the availability of resources for implementing community improvement measures, and equalising and anti-discriminatory measures for disadvantages and minority groups. Students study and make use of games that are aimed at increasing awareness of conflicts of interest inherent in city organization, and the ways to resolve them.**

**Year 5 students are required to attend a survey camp of up to two weeks’ duration. The camp is held in or near an appropriate country centre. Students, under staff supervision, study the character and function of a regional centre, patterns of rural settlement, and rural land use classifications.**

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

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

**The provision of public utility services: town water supplies, sewerage, drainage, flood management, electricity and gas supply, telecommunication. Transportation planning and design: road hierarchy, road geometry, arterial roads, residential streets, intersections, cross sections, road layouts in residential areas, public transport. Transport and environment: accidents and safety; noise, air pollution. Traffic engineering, characteristics of road vehicle, driver, road system.**

**A review of issues in and approaches to planning of cities and regions in Third World countries.**
36.503 Practical Experience

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

Planning Electives

Students are required to select an elective from the topics listed (subject to availability) for each of the three sessions where such an elective is part of the course program. Students may select a different topic for each session or, if they wish to develop some specialisation, select the same topic for more than one session. In the case of the latter, students undertake different tasks in each session. Students are also permitted to select electives offered by other schools subject to approval of the lecturer concerned and the Head of the School of Town Planning.

36.8100 Planning Elective  S1
36.8200 Planning Elective  S2
36.8300 Planning Elective  S3

For initial enrolment only.

36.8101 Residential Planning  4CCH
36.8201 Residential Planning  4CCH
36.8301 Residential Planning  4CCH

Procedures and legal controls over land subdivision in NSW, land studies in terms of climate, terrain, vegetation, slopes, soils, drainage, etc; land development in relation to earthworks, roads, drainage and other utilities; detailed consideration of road and drainage design; subdivision design, land values and land economics. Innovatory designs.

36.8102 Local Planning  4CCH
36.8202 Local Planning  4CCH
36.8302 Local Planning  4CCH

Research and design into a topic at the town scale of current concern in planning.

36.8103 Regional Planning  4CCH
36.8203 Regional Planning  4CCH
36.8303 Regional Planning  4CCH

Planning methodology in metropolitan areas; a critical overview and a detailed examination of planning processes, policies and programs for selected areas/functions/institutions.

36.8104 Rural Planning  4CCH
36.8204 Rural Planning  4CCH
36.8304 Rural Planning  4CCH

Original research into a topic of current concern in rural planning.

36.8105 Urban Conservation  4CCH
36.8205 Urban Conservation  4CCH
36.8305 Urban Conservation  4CCH

Definitions and philosophy of urban conservation; setting objectives and formulating policy, criteria for selecting and assessing conservation areas; planning consideration to protect and enhance the urban fabric; legislation and mechanisms for urban conservation existing in NSW and elsewhere; potential; some effects of urban conservation (physical, social, economic); attitudes to urban conservation; case study of selecting and planning a conservation area.

36.8106 Planning Law and Administration  4CCH
36.8206 Planning Law and Administration  4CCH
36.8306 Planning Law and Administration  4CCH

Aimed at increasing the student's knowledge and awareness of issues in the general areas of Planning Law, Planning Administration and Statutory Planning.

36.8107 Urban Studies  4CCH
36.8207 Urban Studies  4CCH
36.8307 Urban Studies  4CCH

Exploration in depth of an aspect of environmental planning of particular interest to the student. An individual research study to expand the student's experience in methodological and substantive areas beyond what is encountered elsewhere in the course.

36.8108 Social Planning  4CCH
36.8208 Social Planning  4CCH
36.8308 Social Planning  4CCH

Planning responsibilities in equalizing resources distribution. Discussion of consensual goal definition and achievement versus social engineering. Popular participation in planning: why, where and how. Methodology and aids to social planning. Policy formulation and case studies. The program is presented by and with practitioners in the field and includes role playing games and problem solving essay. If possible an involvement in an area project may be substituted for some of the program.

36.8109 Environmental Psychology  4CCH
36.8209 Environmental Psychology  4CCH
36.8309 Environmental Psychology  4CCH

The environment considered subjectively and objectively. Man as a social and psychological rather than a strictly economic being. The significance for decision-making, of individual and group values held on the environment (nature and man-made), from individual decision on where to live through to government decisions on policy. Forces influencing the formation of these values. The distinction between values held and actual behaviour. The emergence of different viewpoints and resultant conflicts. The role of planning in understanding, anticipating and reconciling such conflicts.

36.8110 Third World Planning  4CCH
36.8210 Third World Planning  4CCH
36.8310 Third World Planning  4CCH

As planning is a temporal concept, historical, contemporary, and future themes are built into the subject. At the completion of the program the student should understand the environmental planning process and the individual's rights under it.

This full subject is also offered as a half elective consisting of the lecture sessions only. Assessment is by written assignment, tutorial paper, and class participation. The assignment is based on the lecture material, and students are also required to prepare a written paper for tutorial discussion.

Related to the integration of transport and environmental management at the local level.

Research into and design of an area, from an urban design perspective.

Students have the opportunity to pursue a subject of special interest related to planning, depending on staffing resources.

Introduction to the discipline of landscape architecture. Outline of the program and its major strands of planning; design and implementation; natural and social sciences; skills (graphic, verbal, and written communication). Brief exposure to examples of landscape planning, design and implementation throughout history, both overseas and in Australia. Issues and opportunities for landscape architects.

The use of computers by landscape architects. Necessary knowledge to make full use of opportunities that the computer can provide including time sharing, batch processing and the use of graphic output. Components of the computer and their interrelationships, data processing, file management, use of library programs, interpretation of results, basic programming.
37.1202 Prehistory for Landscape Architects

Prerequisite: Nil.

Formation of the Australian landscape in prehistory. An overview of continental drift, orogenesis, paleoclimates and glacial cycles, plate tectonics and geomorphology. Paleo environments and the advent of *homo sapiens*. Critical interfaces within the biosphere and the impact of prehistoric man with reference to extant ‘primitive’ societies.

37.1302 Landscape Analysis

Prerequisites: 27.801, 43.202.

Observation and interpretation of both physical and biological environment and their interrelationships. Landscape character through sensory inputs and prehistory. Fundamental characteristics of biological systems, with emphasis on relationships with the physical environment, particularly geology, soils. Survey of Australian plant communities and associated fauna with particular emphasis on the Sydney Region. Recording and presentation techniques associated with landscape surveys. Field excursions.

37.1403 History of Landscape Architecture

Prerequisite: Nil.

Chronological development of cultural landscapes described by the investigation of philosophical, aesthetic and social aspects of Eastern and Western cultures with an emphasis on the Australian context. Changing attitudes to nature as reflected in land uses. The development of garden design and landscape architecture.

37.1503 Environmental Sociology for Landscape Architects

Prerequisite: 37.1202.

Perception of human requirements through behavioural studies, including territoriality and personal space identity. The effect of environmental changes on people. Sociological techniques for understanding user requirements. Post design evaluation. Application of simple statistical methods.

37.1606 Land Systems

Prerequisite: 37.5003.


37.1707 Land Management

Prerequisite: 37.1606.

An investigation of resources and their management, with reference to managed landscapes, both cultural and natural. Conservation and rehabilitation methods are studied in relation to rural and urban landscapes, including coastal processes. Rehabilitation methods are related to land use types with studies of specific examples, following investigations of human impacts and their assessment.

37.3005 Research Methods

Prerequisite: Nil.

Investigation of various research methods with application to study in landscape architecture. Development of the critical, logical and stylistic skills involved in researching, writing and presenting essays, theses, articles, papers and reports. Selection of topic for study in the subject 37.3007 Landscape Thesis.

37.3007 Landscape Thesis

Prerequisites: 37.3005, 37.5606.

A specialized individual study under staff supervision enabling the student to gain knowledge in some aspect of landscape architecture which has not been covered, or to extend the student’s knowledge and/or understanding in one in which has. As such the thesis is essentially evidence of this individual study. The study does not require original experimental research for the purpose of discovering new facts or the testing of an hypothesis. Neither is it an essay permitting the student’s unsupported opinion. The topic of the thesis must be submitted for approval of the Professor of Landscape Architecture at the close of Year 3. The completed thesis must be submitted for examination at the close of Year 4.

37.3101 Landscape Graphics 1

Prerequisite: Nil.

Basic technical drawing with emphasis on two-dimensional graphics. Pencil techniques, drafting conventions, layouts, lettering, instruments and scale presentation. The principles and application of orthographic, axonometric and isometric projection. Development of plan and section drawing techniques. Types of drawings and appropriate graphic techniques. Introduction to the use of various media. Depicting planting in landscape graphics.

37.3202 Landscape Graphics 2

Prerequisite: 37.3101.

Advanced technical drawing techniques including the use of various media, with emphasis on three-dimensional graphic concepts. Investigation of the basic principles of perspective theory. Application of perspective drawing to landscape architectural works, including landforms and other elements. Model making and introduction to photography.
37.3303 Landscape Graphics 3  S1 L1T2
Prerequisite: 37.3202.

Applied graphic presentation techniques with emphasis on design concepts. Survey, analysis and synthesis documentation and sketch presentation. Exercises in presentation related to assignments being undertaken as part of the Landscape Design subjects. Photography as a presentation medium.

37.3404 Landscape Graphics 4  S2 L1T2
Prerequisite: 37.3303.

Advanced graphic presentation techniques as related to final design development and working drawing documentation. Exercises in presentation related to assignments being undertaken as part of the design and implementation strands.

37.5004 Planting Design  S2 L2T1
Prerequisite: 37.1102.

Plants as design elements; management of plant designs. Plant designs for specific sites; water plants, indoor plants, roof gardens, industrial and reclaimed sites. Observation of existing landscape schemes. Documentation of plant design.

37.5101 Design 1  S1 L1T2
Prerequisite: Nil.

Basic design theory to initiate a language of design elements. Investigation into materials and methods of expression used in art and design. Practical exercises in communication of ideas. Sketching in the field; studio work.

37.5202 Design 2  S2 L1T2
Prerequisite: 37.5101.

Design theory and processes including introduction of notions of spatial design and composition with reference to historical examples. Development of personal expression in art and design through exercises in selected media. Concepts of naturalism and abstraction. Sketching in the field; studio work. Site appreciation.

37.5303 Landscape Design 1  S1 L2T5
Prerequisite: 37.5202.

1. Basic Design. The interpretation of aesthetic values of sites and environments used in design exercises. Emphasis on free-hand drawing by sketching in the field. 2. Applied Design. Logical design process applied to simple landscape design exercises with emphasis on site survey, site analysis and functional analysis.

37.5404 Landscape Design 2  S2 L3T6
Prerequisite: 37.5303.

1. Basic Design. Aesthetic appreciation of chosen environments both urban and natural. Graphic communication using selected media. Seminars on design philosophy related to design exercises. 2. Applied Design. An understanding of materials and construction as applied to a range of medium scaled projects with an emphasis on practical relationships between design, use of appropriate materials and construction detailing.

37.5505 Landscape Design 3  S1 L2T6
Prerequisites: 37.3404, 37.5404, 37.7404.

More advanced design exercises within the context of both natural and urban environments. Emphasis is on gaining a knowledge of site planning with specific reference to sites located within the geological areas of the Sydney Region. Projects are of a large scale and further emphasis is directed towards consideration of appropriate environmental management and realisation of required maintenance ends in relation to design solutions.

37.5606 Landscape Design 4  S2 L2T6
Prerequisite: 37.5505.

Experience of dealing with medium to large scale projects of specific land uses such as schools and residential sub-divisions, in which research is encouraged to assess environmental impacts, both physical and social. Emphasis on practical solutions and the preparation of contract documents including preliminary costing of design proposals.

37.5707 Landscape Design 5  S1 L2T6
Prerequisite: 37.5606.

Projects are of a smaller detailed scale and with at least one project carried out involving the whole design process from brief preparation through to sketch design and detail design development. Emphasis on achieving solutions of a professional standard. Projects can be related to the natural, urban or rural environment.

37.5808 Landscape Design 6  S2 L2T10
Prerequisite: 37.5707.

Students are called upon to employ all the knowledge, skill and understanding they have gained in previous years. Projects are few in number, but call for solutions of professional standard, supported by thorough documentation. Group work predominates. Projects are representative of our major environmental problems, ranging from expressways to mineral extraction and from National Parks to solid and liquid waste disposal.

37.7101 Landscape Technology 1  S1 L1T1
Prerequisite: Nil.

Basic techniques used in design, development and construction. General site appraisal, map reading, elementary surveying and terrain assessment, and application of mathematics.
37.7115 Professional Practice 1
Prerequisites: 37.5404, 37.7404.

The landscape architect's responsibilities in law; a study of the development of law in Australia, including torts, contracts, equity and environmental legislation. Project procedure, the stages of a capital development project. Construction contracts, including tender documentation, subcontract conditions and subconsultative responsibilities.

37.7202 Landscape Technology 2
Prerequisite: 37.7101.

Techniques for recording and assessment of physical site characteristics: surficial geology, microclimate and other factors. Land surface manipulation including contour planning and earthwork calculations, and more detailed surveying techniques. Fieldwork exercises.

37.7216 Professional Practice 2
Prerequisite: 37.7115.

The specification, its function and forms. A comparative analysis of various standard contract forms including SAA documents and other performance codes. Preparation of contract documentation, including elemental and trade technical sections. Cost planning and feasibility studies.

37.7303 Landscape Technology 3
Prerequisite: 37.7202.

Materials science: the relationship between the properties and structure of materials. The derivation, conversion and production of materials commonly used in landscape and construction. Structures: the history and morphology, loads and structural requirements, structural elements and systems, and basic structural form.

37.7317 Professional Practice 3
Prerequisite: 37.7216.

Contract administration and project supervision, the role of the consultant. Tender evaluation, award of contracts, site inspections, variation procedure, claims and certificate issue and general site administration. Practical completion, rectification and final certification. The rights and duties of the proprietor and contractor, including the relationship with the consultants. Postcontract activities, maintenance manuals, appraisal of design and construction and retention of records. The Statute of Limitations.

37.7404 Landscape Technology 4
Prerequisite: 37.7303.

Application of materials in structural situations, including elementary building techniques and mechanical analysis. Landscape construction methods, including design and documentation of grading, earthworks and retaining structures.

37.7418 Professional Practice 4
Prerequisite: Four months approved practical experience, 37.7317.

Landscape architecture as a profession: obligations, liabilities and responsibilities. Professional association and registration, including a study of the Australian Institute of Landscape Architects. Office management and practice; record keeping, correspondence, insurances and taxation. Copyright and document control. Preparation of reports on practical experience gained during enrolment in the course. A minimum requirement of four months approved experience is prerequisite to enrolment in this subject.

37.7505 Landscape Engineering 1
Prerequisite: 37.7404.

Design and construction techniques related to basic civil works, including earth works, route alignment, services, urban and rural drainage. Interpretation of engineering design and development documents. Projects incorporating detail resolution of civil works.

37.7606 Landscape Engineering 2
Prerequisite: 37.7505.

Design and construction techniques related to water control and treatment, waste disposal and sewage treatment. Overview of the principles of transportation systems including roads, railway permanent ways, airports, ports and harbours.

37.9105 Landscape Planning 1
Prerequisite: 37.7505.

Basic methods and techniques of resource data collection, analysis and valuation. History of landscape planning in Australia and overseas with reference to pioneering case studies. Projects include the use of maps, air photos and simple computer programs.

37.9206 Landscape Planning 2
Prerequisite: 37.9105.

Classification of planning methods. Study of complex methods and techniques used in recent landscape planning models. Development of land use suitability models for recreation, residential, industrial, commercial, grazing, agriculture, forestry and conservation. Projects include the use of remote sensing techniques and advanced computer programs.

37.9307 Landscape Planning 3
Prerequisite: 37.9206.

Major planning project in conjunction with final landscape design project. Discussions on contemporary environmental planning issues. Australian case studies.
Visual analysis, assessment and evaluation techniques detailed in order to incorporate this important aspect into planning models. Visual resource management. Recent Australian and overseas case studies. Projects incorporate relevant visual analysis computer programs.

Landscape Electives for Students of Architecture and Related Disciplines

The following landscape electives require attendance of two hours per week over a period of 14 weeks. They are offered subject to demand and availability of resources, consequently students are advised to contact the School before finalizing their program. Credit point values and prerequisites specifically refer to students of Architecture enrolled in courses 3275, 3280 or 3295.

37.100 Site Planning Elective
2 credit points. Prerequisite: 52 credit points.
Not offered in 1987.
Recognition of natural processes and factors in site analysis. Opportunities and constraints with respect to potential development. Development of a logical approach to site planning.

37.300 Planting Design Elective
2 credit points. Prerequisite: 104 credit points.
The selection and use of plant materials within the built environment with particular reference to visual and ecological considerations.

37.3015 Environment Impact Assessment 1
2 credit points. Prerequisite: 156 credit points, or as otherwise approved by Subject Authority.
Not offered in 1987.

37.3016 Environmental Impact Assessment 2
2 credit points. Prerequisite: 37.3015.
Not offered in 1987.
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 comparable basis. The importance of communication between the environmental sciences and professions and the problems of objectivity. Emphasis upon the role that environmental impact assessment should play as part of the planning process; landscape assessment methodologies reviewed with specific reference to their adaptability for use as a 'before and after' technique for comparatively assessing impact in relation to visual/aesthetic factors.

The student undertakes a specific study of current social significance on a group basis in two phases over two consecutive sessions, in the same year. Each phase is used as a partial assessment of progress.

37.400 Urban Landscape Elective
2 credit points. Prerequisite: 104 credit points.
Not offered in 1987.
The treatment of spaces between and upon buildings, 'hard' and 'soft' landscape treatments. Functional uses of open space within the built environment and the design of street furniture.

37.500 Recreation Planning Elective
2 credit points. Prerequisite: 156 credit points.
Not offered in 1987.
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.

Subject Offered to Other Schools

37.224 Landscape Architecture
Landscape and planting within the built environment with particular reference to functional, ecological and aesthetic considerations; the treatment of spaces between buildings and in road reservations; hard and soft landscape treatments; establishment and maintenance cost.

Botany

43.202 Botany for Landscape Architects
Prerequisite: Nil.
How green plants function. What is known about how plants grow. Specific topics include: what happens in a plant meristem, hormone interactions and growth, transport systems in plants, water uptake and use, mineral nutrition, the role of light and leaves in photosynthesis, control of flowering process, germination and senescence. Emphasis is on the interaction between plant structure and function.
Graduate Study

Faculty of Architecture
Graduate Enrolment Procedures

All students enrolling in graduate courses should obtain a copy of the free booklet Enrolment Procedures 1987 available from School Offices and the Admissions Office. This booklet provides detailed information on enrolment procedures and fees, enrolment timetables by faculty and course, enrolment in miscellaneous subjects, locations and hours of cashiers and late enrolments.

Higher Degrees — Research

Following the award of a first degree in Architecture, Building, Landscape Architecture or Town Planning of the University of New South Wales or other approved university, graduates may apply to register for the study leading to the award of the degree of Master of Architecture, Master of Building, Master of Landscape Architecture or Master of Town Planning. Facilities are also available in each school for research towards the degree of Doctor of Philosophy. For details concerning this degree see Conditions for the Award of Higher Degrees later in this handbook or write to the Dean.

Summary of the Conditions for the Award of a Masters Degree

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

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

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

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

Graduate Courses

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

1. Master of Science (Acoustics)
2. Master of Building Management
3. Master of Science (Industrial Design)
Graduate School of the Built Environment

Head of School
Professor J. C. Haskell

The aim of the Graduate School is to provide, within the Faculty of Architecture, a centre to promote the inter-disciplinary study of the built environment through research, teaching, publications and expert advice to appropriate authorities, organizations and professions in Australia and Southeast Asia, at a high level of academic excellence, critical objectivity and perceptive innovation.

The School undertakes a range of activities within the areas of: acoustics, architectural history, building conservation, health facilities design, industrial design, urban design and continuing education.

Research

The School currently has active research units working under its control in most of the areas listed above. For more detailed information concerning current research and facilities, contact the Head of School.

Research Degrees

The School makes available to research students a resource facility covering a wide spectrum of relevant disciplines in which students can follow a largely self-determined program of study, research and practice.

The School tailors individual programs to student needs at both Masters and Doctoral levels. In doing so it is able to call on its own research units and on many resources from within every faculty of the University.

Research may be undertaken towards the award of Doctor of Philosophy (PhD), Master of Architecture (MArch) and Master of the Built Environment (MBEnv).

Eligibility for Enrolment

The School welcomes professional level graduates in any discipline whose further studies are to be in the area of the built environment and does not restrict its intake to graduates in architecture, building, town planning, landscape architecture or industrial design.

1120 Doctor of Philosophy

Doctor of Philosophy PhD

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

1121 Doctor of Philosophy

Doctor of Philosophy PhD

This degree provides for research work of a specialized and restricted nature. Students individually follow a self-determined program of study and research.

In addition to the general conditions governing the award of the degree of Doctor of Philosophy, the School offers an alternative study program to students already holding the degree of Master in an appropriate discipline.

Course Structure

The program is normally taken over four full-time sessions (two academic years). In special circumstances where the research project can be properly served and with the concurrence of the Professorial Board, some of this time may be fulfilled on an equivalent part-time basis, but in no case will students spend less than two consecutive sessions full-time in the course.

The program consists of:

1. A compulsory core containing:

   (1) 39.301G New Development Studies 2 credit points
   (2) 39.302G Research Studies 2 credit points
   (3) 39.303G Directed Studies 3 credit points
   (4) Preparation and structuring of a doctoral research topic

   This part must normally be completed by the end of the first session of studies.

2. Electives selected from a wide range of relevant subjects offered by faculties throughout the University (12 credit points).

Elective studies commence at the beginning of the first session of studies and must normally be completed by the end of the second session of studies.

3. Supervised research of a doctoral research topic approved by the Higher Degree Committee of the Faculty of Architecture and the preparation of a thesis. This work can be undertaken only on satisfactory completion of Part 1.

Student progression is evaluated at the end of first session (preliminary evaluation) and at the end of second session (confirmation evaluation). The thesis examination and its procedures conform to the normal University examination practice with regard to doctoral theses.
2201 Master of Architecture

Master of Architecture MArch

Graduates holding the degree of Bachelor of Architecture of the University of New South Wales or other approved university may apply to register for the degree of Master of Architecture by research. General conditions governing registration as a candidate for this degree are given later in this handbook.

2240 Master of the Built Environment

Master of the Built Environment MBEnv

This degree provides for research work of an interdisciplinary nature relevant to the built environment. Graduates holding a minimum four year degree of Bachelor of the University of New South Wales or other approved university in any appropriate discipline may apply to register for the degree of Master of the Built Environment by research. General conditions governing registration for this degree are given later in this handbook.

8100 Master of Science (Acoustics) Course

Master of Science (Acoustics) MSc(Acoustics)

This course provides for graduate study and research in several important aspects of acoustics, such as community noise control, noise control in industry and in buildings, auditorium design and physical acoustics. It is designed primarily for graduates in engineering, architecture, science or building who wish to specialize in acoustics and it is suitable for those who wish to find employment with noise control authorities, or in industry, to practise as consultants, to undertake research or to become part of a multi-disciplinary team in an architectural or engineering practice.

Admission Requirements

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

An applicant for registration for the degree course of Master of Science (Acoustics) shall have been admitted to the degree of Bachelor of Science (Architecture) or Bachelor of Science in Design Studies at Honours level, Bachelor of Architecture, Bachelor of Building, Bachelor of Science at Honours level or Bachelor of Engineering at the University of New South Wales, or an equivalent degree from another university or tertiary institution. In exceptional cases applicants may be registered as candidates for the degree if they submit evidence of such academic and professional attainment as may be approved by the Higher Degree Committee of the Faculty of Architecture.

Notwithstanding any other provisions of these conditions the Higher Degree Committee of the Faculty of Architecture may require an applicant to demonstrate fitness for registration by carrying out such work and sitting for such examinations as the Higher Degree Committee of the Faculty of Architecture may determine. Candidates with BSc(Arch) or BSc(DesStud) at Honours level, BArch or 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. 8 credit points must be obtained by completing four compulsory core subjects and the remaining 11 credit points are obtained by the satisfactory completion of formal subjects, which may be chosen to emphasize a particular field of acoustics. The subjects offered in any session will depend on student numbers and interests.

Course Subjects

<table>
<thead>
<tr>
<th>Code</th>
<th>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>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>39.901G</td>
<td>Acoustic Measuring Systems and Electroacoustics</td>
<td>2</td>
<td>Core</td>
<td>S1</td>
</tr>
<tr>
<td>39.902G</td>
<td>Advanced Physical Acoustics</td>
<td>4</td>
<td>Elective</td>
<td>S3</td>
</tr>
<tr>
<td>39.993G</td>
<td>The Ear, Hearing and Hearing Conservation</td>
<td>2</td>
<td>Core</td>
<td>S1</td>
</tr>
<tr>
<td>39.995G</td>
<td>Community Noise</td>
<td>4</td>
<td>Elective</td>
<td>S2</td>
</tr>
<tr>
<td>39.994G</td>
<td>Graduate Project A (pre-requisite 10 credit points)</td>
<td>5</td>
<td>Compulsory</td>
<td>S3</td>
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<tr>
<td>39.996G</td>
<td>Graduate Project B (pre-requisite 39.994G)</td>
<td>10</td>
<td>Compulsory</td>
<td>S4</td>
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<tr>
<td>39.997G</td>
<td>Auditorium Acoustics</td>
<td>3</td>
<td>Elective</td>
<td>S3</td>
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<tr>
<td>39.998G</td>
<td>Noise Control in Buildings</td>
<td>4</td>
<td>Elective</td>
<td>S2</td>
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</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 Graduate School of the Built Environment.
**8130**  
Master of the Built Environment (Building Conservation) Course  
Master of the Built Environment (Building Conservation)  
MBEnv

This course consists of graduate work in the major areas of building conservation. It is designed for graduates who wish to specialize in the conservation of the built environment by working actively in the preservation, restoration, reconstruction, adaptation or related treatments of existing structures.

**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 14 hours.

Full-time study normally requires an attendance of 18 hours per week while part-time study normally requires attendance of an average of 9 hours per week for the duration of the course.

Most of the work is done in the School, but approved practical experience forms an important component of the course. The program is so arranged that eminent visitors as well as guest lecturers may participate.

Normally, subjects are timetabled on one afternoon and evening, and one other evening each week. In addition to 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>Total Contact Hours</th>
<th>Credit Points</th>
</tr>
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<tbody>
<tr>
<td>Contextual Studies</td>
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<tr>
<td>Architectural History</td>
<td>42</td>
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<tr>
<td>Conservation Management</td>
<td>42</td>
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<td>Analysis and Documentation A</td>
<td>84</td>
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<tr>
<td>Conservation Technology</td>
<td>210</td>
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<td>Graduate Project</td>
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<th>Total Credit Points</th>
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**Typical Pattern of Full-time Study**

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<th>Hrs</th>
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<tr>
<td>39.102G</td>
<td>Architectural History</td>
<td>42</td>
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<td>39.103G</td>
<td>Conservation Management</td>
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<tr>
<td>39.104G</td>
<td>Analysis and Documentation A</td>
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<tr>
<td>39.105G</td>
<td>Analysis and Documentation B</td>
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<tr>
<td>39.106G</td>
<td>Conservation Technology A</td>
<td>28</td>
</tr>
<tr>
<td>39.107G</td>
<td>Conservation Technology B</td>
<td>—</td>
</tr>
<tr>
<td>39.108G</td>
<td>Conservation Technology C</td>
<td>56</td>
</tr>
<tr>
<td>39.109G</td>
<td>Conservation Technology D</td>
<td>—</td>
</tr>
<tr>
<td>39.110G</td>
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<td>56</td>
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<table>
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<tr>
<th>S2</th>
<th>Hrs</th>
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<td>Contextual Studies</td>
<td>—</td>
</tr>
<tr>
<td>39.102G</td>
<td>Architectural History</td>
<td>—</td>
</tr>
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<td>39.103G</td>
<td>Conservation Management</td>
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<tr>
<td>39.104G</td>
<td>Analysis and Documentation A</td>
<td>—</td>
</tr>
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<td>39.105G</td>
<td>Analysis and Documentation B</td>
<td>—</td>
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<td>Conservation Technology A</td>
<td>70</td>
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<td>39.107G</td>
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<td>39.108G</td>
<td>Conservation Technology C</td>
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<td>Conservation Technology D</td>
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</tr>
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<td>39.110G</td>
<td>Graduate Project</td>
<td>56</td>
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</thead>
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<table>
<thead>
<tr>
<th>Total Hrs</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>252</td>
<td>14</td>
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<tr>
<td>252</td>
<td>22</td>
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</table>
Typical Pattern of Part-time Study

<table>
<thead>
<tr>
<th></th>
<th>S1</th>
<th></th>
<th>S2</th>
<th></th>
<th>S3</th>
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<tbody>
<tr>
<td>Hrs</td>
<td>Credits</td>
<td>Hrs</td>
<td>Credits</td>
<td>Hrs</td>
<td>Credits</td>
<td>Hrs</td>
<td>Credits</td>
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</tbody>
</table>

Upon Completion 8

8145
Master of Industrial Design Course
Master of Industrial Design (MID)

8146
Master of Science (Industrial Design) Course
Master of Science (Industrial Design) (MSc(IndDes))

These courses of graduate study have a common core of subjects in the major areas of industrial design. They are designed for graduates in industrial and environmental design, architecture, engineering, and marketing and business studies who wish to make careers in industrial design or to be involved in industrial design as a part of their career activity, eg, mechanical engineering with industrial design.

The MID degree course is intended for holders of four year industrial design degrees who wish to specialize and develop expertise in particular areas of industrial design. In addition to the common core of subjects, MID degree students are also required to submit a major graduate project, a design theory report and have a greater choice of electives related to their field of specialization.

The MSc(IndDes) degree course is intended for graduates from design fields related to industrial design, such as architecture or engineering, or for graduates from non-design areas, such as marketing, who have satisfactorily completed preparatory studies. The course is designed to adapt and apply the students' existing design knowledge and experience to the methodology and practice of industrial design. The project work is less specialized and covers a broad range of industrial design problems. The students are required to submit a minor graduate project. There are additional compulsory subjects in this course, with a more restricted range of electives, closely related to industrial design.

Admission Requirements

The conditions governing registration as a candidate for the MSc(IndDes) degree course are given later in this handbook: see below under Conditions for the Award of Higher Degrees. In summary, admission is open to applicants who have been admitted to an appropriate degree of at least four years' full-time duration, or its equivalent. For the MID degree course, admission is restricted to applicants who have been admitted to a degree with a 'major' in industrial design of at least four years' full-time duration, or its equivalent. Candidates who have completed part or all of the requirements for the award of the degree of the MSc(IndDes) course may elect to apply for admission to the MID degree course, subject to the recommendation of the School and the approval of the Higher Degree Committee of the Faculty of Architecture.

In certain cases, particularly for applicants from non-design undergraduate courses, it is necessary to complete a qualifying program of preparatory units in industrial design, as prescribed by the Higher Degree Committee of the Faculty. These units are selected from appropriate undergraduate courses. The Committee's decision is influenced by the academic and professional experience of each applicant.

Course Structure

The minimum duration of both courses is two sessions of full-time study or four sessions of part-time study. The availability of the full-time and part-time programs of study depends upon student demand and the University's resources at that time.

The MID degree course comprises 38 credit points. The MSc(IndDes) degree course comprises 36-38 credit points. One
credit point is normally equivalent to one hour per week for one session. Full-time study normally requires an attendance of approximately 15 hours per week, while part-time study normally requires approximately 9 hours per week for the duration of the course.

The project work for both degree courses, part and full-time, is run simultaneously and is staffed according to the requirements of each project.

Most of the work is undertaken within the School, but industrial visits and experience forms an important component of the course.

The program is so arranged that eminent visitors as well as guest lecturers and designers may participate.

To avoid duplication of classes for full-time and part-time students, subjects are timetabled wherever possible on afternoons and evenings. In addition to timetabled commitments, the studios and laboratories are available during normal University hours for industrial design project work. Occasionally students are required to attend professional and industrial visits and lectures at other institutions.

The requirements for the course include an equivalent period of at least four weeks of approved professional or industrial experience. Part-time students with approved employment are exempt from this requirement.

### Course Subjects

#### Common Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credit Points</th>
<th>Usual Session Offered</th>
</tr>
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<tbody>
<tr>
<td>39.501G</td>
<td>Industrial Design Studies</td>
<td>2</td>
<td>S1 S2</td>
</tr>
<tr>
<td>39.511G</td>
<td>Ergonomics for Industrial Designers</td>
<td>2</td>
<td>S2</td>
</tr>
<tr>
<td>39.521G</td>
<td>Business Studies for Industrial Designers</td>
<td>2</td>
<td>S1</td>
</tr>
<tr>
<td>39.531G</td>
<td>Manufacturing Technology</td>
<td>2</td>
<td>S1</td>
</tr>
<tr>
<td>39.541G</td>
<td>Industrial Experience*</td>
<td>2</td>
<td>*</td>
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#### MID only

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Graduate Project (MID)</td>
<td>14</td>
</tr>
<tr>
<td>39.502G</td>
<td>Design Theory</td>
<td>4 S1 S2</td>
</tr>
<tr>
<td>39.512G</td>
<td>Industrial Design</td>
<td>4 S1</td>
</tr>
<tr>
<td>39.522G</td>
<td>Approved Electives**</td>
<td>6</td>
</tr>
</tbody>
</table>

#### MSc(IndDes) only

<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.503G</td>
<td>Design Media and Communication</td>
<td>2 S1</td>
</tr>
<tr>
<td>39.513G</td>
<td>Visual Thinking**</td>
<td>2 S1</td>
</tr>
<tr>
<td>39.523G</td>
<td>Industrial Design A</td>
<td>6 S1</td>
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<tr>
<td>39.533G</td>
<td>Industrial Design B</td>
<td>6 S1 S2</td>
</tr>
<tr>
<td>39.543G</td>
<td>Graduate Project (MSc(IndDes))</td>
<td>8 S2</td>
</tr>
<tr>
<td></td>
<td>Approved Electives**</td>
<td>4</td>
</tr>
</tbody>
</table>

*Approved electives may be taken from subjects offered in other schools of the University of New South Wales, subject to the approval of the Heads of the Graduate School of the Built Environment and the school offering the subject.

The School proposes electives in the areas of design ideologies, history of artefact design, product analysis, health and rehabilitation design, ethnotechnology and ceramics. These are run depending upon student demand, course requirements and faculty resources.

Depending upon course requirements, the availability of University staff and faculty resources, it may be possible to substitute some existing graduate or undergraduate courses in other faculties for certain subjects of the course. This development would be subject to the approval of the Higher Degree Committee of the Faculty of Architecture and the Heads of the schools offering the courses. Where the credit point of subjects is increased by substitution of subjects from other schools, the requirement for the stated number of credits in elective subjects is correspondingly reduced.
Common Core

MSc(IndDes) only

39.503G  Design Media and Communication  
39.513G  Visual Thinking***  
39.523G  Industrial Design A  
39.533G  Industrial Design B  
39.543G  Graduate Project (MSc(IndDes))  

Approved Electives  

Total Hours per week MSc(IndDes)  

* A four week period during the recess. Part-time students in approved employment are normally exempt.  
**Nominal hours.  
***Graduates of visually orientated courses, eg architecture, are normally exempt.

Typical Part-time Study Patterns for MID and MSc(IndDes)

Common Core  

S1  S2  S3  S4

39.501G  Industrial Design Studies  
39.511G  Ergonomics for Industrial Designers  
39.521G  Business Studies for Industrial Designers  
39.531G  Manufacturing Technology  
39.541G  Industrial Experience*  

MID only  

39.502G  Graduate Project (MID)  
39.512G  Design Theory  
39.522G  Industrial Design  

Approved Electives  

Total hours per week MID  

MSc(IndDes) only  

39.503G  Design Media and Communication  
39.513G  Visual Thinking***  
39.523G  Industrial Design A  
39.533G  Industrial Design B  
39.543G  Graduate Project (MSc(IndDes))  

Approved Electives  

Total hours per week MSc(IndDes)  

* A four week period during the recess. Part-time students in approved employment are normally exempt.  
**Nominal hours.  
***Graduates of visually orientated courses, eg architecture, are normally exempt.

School of Architecture

The School of Architecture offers facilities for research and welcomes enquiries from students who wish to pursue programs for the degrees of Master of Architecture (MArchDes) or Doctor of Philosophy (PhD). Prospective students should consult the Head of School to discuss their research interests prior to making a formal application.

1130  
Doctor of Philosophy  

Doctor of Philosophy  

PhD  

This is a research degree requiring an original and significant contribution to knowledge in an approved subject.
2200
Master of Architecture
Master of Architecture
MArch
This degree is available to part-time and external candidates in addition to full-time candidates. It requires the submission of a thesis embodying the results of an original investigation or design.

8140
Master of Architectural Design Course
Master of Architectural Design
MArchDes
The course is centred on the essential architectural activity, the conceptual design-synthesis of buildings to masterly accomplishment.

It aims at an embracing and thorough synthesis of all relevant influences arising from the inanimate (physical) and animate (human) context into which the building is to be placed. These subjects establish the nature of the course as a whole; they involve theory, research and studio practice crystallized into a project which is assessed at the conclusion of each semester.

The central project is supported by elective subjects.

Admission Requirements
The general conditions governing registration as a candidate for the degree of Master of Architectural Design are given later in this handbook but the attention of intending applicants is directed to the following specific requirements:

1. The standard of admission is the BArch degree at Honours level of the University of New South Wales or any other approved university followed by at least one year of professional practice.

2. Graduates with a BArch degree at Pass level may be admitted only on the recommendation of the Head of School and the confirmation of the Faculty.

3. In special circumstances a person may be permitted to register as a candidate for the degree if evidence is submitted of such academic and professional attainments as may be approved by the Faculty on the recommendation of its Higher Degree Committee.

4. Admission is selective for the places available based on the academic record of applicants and the quality and extent of their professional practice.

Course Structure
The course is structured on a two-semester credit-point system. It is offered in two full-time semesters — (each one of a duration of 14 weeks), to be taken either in a single academic year or in two consecutive academic years — the first semester’s work in the first session of Year 1, the second semester’s work in the second session of Year 2.

Full-time study is the normal pattern for this type of course; however, in particular circumstances the first full-time semester may be replaced by two part-time semesters with the approval of the Head of School.

Each semester’s work is equivalent to a minimum of 15 credit points totalling to a minimum of 30 credits for the award of the degree. Each credit point is approximately equivalent to 1 hour/week/semester attendance of the course.

Each student’s program is to consist of the compulsory core subject equivalent to 67 per cent of the total credit points in the course, and of a selection of elective subjects equivalent to the other 33 per cent.

Course Program

<table>
<thead>
<tr>
<th>Credit points</th>
<th>S1</th>
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<tr>
<td>Architectural Synthesis 1 and 2 (core)</td>
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<tr>
<td>Electives</td>
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Core Subjects

<table>
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<tr>
<td>11.901G Architectural Synthesis 1</td>
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<td>11.902G Architectural Synthesis 2</td>
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<td>11.930G Architectural Theory</td>
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<td>11.931G Ideologies of Modern Architecture</td>
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<td>11.932G Architectural Impact Studies</td>
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<td>11.934G Structural and Architectural Space</td>
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<td>11.935G Design for Industrialized Buildings</td>
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<td>11.936G Resources for Buildings</td>
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<td>35.296G Construction Techniques</td>
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<td>35.297G Developments in Building Materials</td>
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<td>35.426G Building Services</td>
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<td>35.390G Co-ordination of Structures and Services</td>
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<td>35.360G Computer Techniques and Applications</td>
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<td>35.361G Computer Techniques and Applications</td>
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<td>35.355G Computer Graphics</td>
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<td>35.381G Building Physics</td>
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<td>35.330G Cost Planning and Analysis</td>
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<td>35.460G Applied Building Economics</td>
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<tr>
<td>35.470G Analysis and Valuation of Property</td>
</tr>
<tr>
<td>36.924G Urban Sociology</td>
</tr>
<tr>
<td>39.997G Auditorium Acoustics</td>
</tr>
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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.
The conditions governing the award of the degree of Master of Science by research are set out in the next section.

School of Building

The School of Building has an active program of research and welcomes enquiries from students who wish to pursue programs for the degrees of Master of Building (MBuild) or Doctor of Philosophy (PhD). Graduates enrolled in these courses need not necessarily be building graduates. Prospective students should consult the Head of School to discuss their research interests prior to making a formal application.

The School also offers each year a series of short non-credit mid-career courses* which are designed to provide practical on-going education for experienced members of the building industry.

*For further information, contact Dr J. Hutcheson, Continuing Education Co-ordinator in the School of Building.

1140
Doctor of Philosophy

Doctor of Philosophy
PhD

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

2210
Master of Building

Master of Building
MBuild

This degree is available to part-time and external candidates in addition to full-time students. It requires the submission of a thesis embodying the results of an original investigation or design relative to building.

8110
Master of Science (Building) Course

Master of Science (Building)
MSc(Building)

This four-session course has been designed to provide opportunities for advanced study in project management and building economics. It allows for study in two interrelated areas:

1. Planning and management aspects of a design or construction organization, including programming, evaluation, costing, performance feedback, feasibility 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 building economics.

The course aims at attracting the qualified practitioner who wishes to widen his/her knowledge and understanding of construction planning, operation and economics related to project management.

Admission Requirements

The general conditions governing registration as a candidate for the degree Master of Science (Building) are given later in this handbook but the attention of intending applicants is directed to the following specific requirements:

1. Applicants will have been admitted to the degree of Bachelor of Architecture or Bachelor of Building in the University of New South Wales or an equivalent degree in another approved university and have appropriate industrial experience.
2. Graduates with a Bachelor of Architecture or Engineering or other four year degree, who have appropriate experience in building may be admitted to the course depending on the individual case.
3. Eligible applicants may be required to complete a program of preparatory or concurrent study set out by the Head of the School of Building 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 Building Management is a formal four session part-time degree course comprising 12 subjects. The subject program comprises studies in management, computations, building economics, operations planning, contract law and documentation. A student must successfully complete all the subjects in one session before progressing to the next session. Students with a grade average of Credit or better in their course may choose to write a Project Report to qualify for the degree with honours.

Course Program

Subjects are offered on a four-session cycle. Subjects are normally timetabled on two evenings and one afternoon per week. Except in exceptional circumstances, a student is required to be concurrently enrolled in all subjects in a given session to allow for syllabus integration between subjects.

Session One

35.101G Economics and Finance
35.102G Management Framework
35.103G Computers Management
Session Two

35.201G Managerial Economics
35.203G Project Planning and Control
35.204G Personnel Management Techniques

Session Three

35.301G Project Feasibility
35.302G Building Contracts
35.303G Management of the Design and Construction Process

Session Four

35.401G Management of Buildings
35.402G Project Applications
35.403G Process Applications

Session Five and Six

35.100G Project Report (full-time or part-time)

School of Landscape Architecture

1160
Doctor of Philosophy
Doctor of Philosophy
PhD

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

2220
Master of Landscape Architecture
Master of Landscape Architecture
MLArch

This degree is available to part-time and external candidates in addition to full-time candidates. It requires the submission of a thesis embodying the results of an original investigation or design.

School of Town Planning

1150
Doctor of Philosophy
Doctor of Philosophy
PhD

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

2230
Master of Town Planning (by Research)
Master of Town Planning
MTP

The Master of Town Planning degree is a research degree awarded on the basis of a thesis embodying the results of an original investigation. The research is to be undertaken over four sessions, but the period may be reduced in certain circumstances. The conditions governing the award of the degree are set out later in this Handbook.

Professional Recognition

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

Course Work

Candidates with a primary degree in a subject other than that of town planning may be required to complete an additional program of study. The actual program is determined by the Higher Degree Committee of the Faculty of Architecture on the recommendation of the Head of the School of Town Planning. Candidates should contact the Head of the School about the guidelines used in formulating such a program.

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.

Admission Requirements

An applicant for admission to the Housing and Neighbourhood Planning course shall be:

1. a graduate in Architecture of the University of New South Wales; or
2. a person with such other qualifications as may be approved by Faculty.
### Part-time

**Year 1**

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<td>36.931G</td>
<td>Theory of Neighbourhood Planning 2</td>
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<td>36.940G</td>
<td>Practice of Neighbourhood Planning 1</td>
<td>3</td>
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<tr>
<td>36.941G</td>
<td>Practice of Neighbourhood Planning 2</td>
<td>3</td>
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<tr>
<td>36.923G</td>
<td>Land and Housing Economics</td>
<td>2</td>
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<td>36.924G</td>
<td>Urban Sociology</td>
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**Year 2**

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<td>36.943G</td>
<td>Practice of Neighbourhood Planning 4</td>
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<td>36.922G</td>
<td>Communications and Public Utilities</td>
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<tr>
<td>36.925G</td>
<td>Housing Law and Administration</td>
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</table>

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

Identification of Subjects by Number

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

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

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

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

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

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

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

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

HSC Exam Prerequisites

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

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

Information Key

The following is the key to the information which may be supplied about each subject:

- S1 (Session 1); S2 (Session 2)
- F (Session 1 plus Session 2, ie full year)
- S1 or S2 (Session 1 or Session 2, ie choice of either session)
- SS (single session, but which session taught is not known at time of publication)
- CCH class contact hours
- L (Lecture, followed by hours per week)
- T (Laboratory/Tutorial, followed by hours per week)
- hpw (hours per week)
- C (Credit or Credit units)
- CR (Credit Level)
- DN (Distinction)
<table>
<thead>
<tr>
<th>School, Department etc</th>
<th>Faculty</th>
<th>Page</th>
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</thead>
<tbody>
<tr>
<td>1 School of Physics*</td>
<td>Science</td>
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<tr>
<td>2 School of Chemistry</td>
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<td>4 School of Materials</td>
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<td>Science and Engineering</td>
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<td>5 School of Mechanical and Industrial Engineering</td>
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<tr>
<td>6 School of Electrical Engineering and Computer Science</td>
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<tr>
<td>7 School of Mines (Mineral Processing and Extractive Metallurgy and Mining Engineering)</td>
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<td>8 School of Civil Engineering</td>
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<td>9 School of Fibre Science and Technology (Wool Science)</td>
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<td>10 School of Mathematics</td>
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<td>11 School of Architecture</td>
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<td>12 School of Psychology</td>
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<td>14 School of Accountancy</td>
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<td>23 School of Nuclear Engineering</td>
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<td>25 School of Mines (Applied Geology)</td>
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</table>

87
Architecture

Physics

1.927G Acoustic Theory

S2 L1½T½
2 credit points.

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

Architecture

11.901G Architectural Synthesis 1

C9

11.902G Architectural Synthesis 2

C11

Theory, research and studio practice, in the form of graduate projects, applied to general architectural themes of high priority in the contemporary context. After thorough theoretical foundation and research analysis the theme is adapted to a specific and concrete situation to achieve an architectural synthesis of all relevant influences arising from the physical and human context.

11.930G Architectural Synthesis 1

C2

A general and theoretical approach to synthesis in art and architecture considering sensible and intelligible influences in the context of history and of the present age.

11.931G Ideologies of Modern Architecture

C2

A critical and analytical review of the ideologies affecting the developments of and finding expression in the various phases of modern architecture from its beginnings to our present day.

11.932G Architectural Impact Studies

C2

Examination of a number of selected buildings in the historical and in the contemporary milieu regarding their impact upon the animate and inanimate context of which they become an organic part. Cultural context: purpose and meaning of the building, its mode of expression, and effect upon the cultural existing pattern. Communication context: the effect of the building upon communication and exchange of experience and goods. Urban context: character, style, shape, proportion material and colour of the building and its effect upon the urban scene. Microclimatic context: the effect of the building upon sunshade patterns, wind, heat, noise, air, etc. Resource context: the effect of the building upon the material manpower, energy resources of the community and its overall economical effect.

11.933G Cultural Influences in Civic Design

C2

An integrated examination of spiritual, mental (psychological, social, political, legislative, administrative) technological, economical, geographical and climatic influences affecting the character, grouping and relationships of buildings on a civic scale. Case studies in the historical and in the contemporary context.

11.934G Structure and Architectural Space

C2

The qualitative role of structural systems in the determination of architectural mass and space. The structure affecting architectural unity, rhythm, variation, etc. The influence of loading patterns and material properties on structural shapes. Structural exhibitionism. Morphological studies of structural systems in nature. The geometrical order of structures. Studies of structural systems in historical and contemporary context with a special emphasis on their effect on architectural space. The design of structural systems for spatial articulation.

11.935G Design for Industrialized Building

C2

Methods of industrialization in the field of building, considered from the general and simple to the specific and complex. Equipment and capital investment needed for equipment, problems of economical return. Standardization and flexibility. Component design in homogeneous and heterogeneous materials for simple and complex applications. Design principles for industrialization. Psychological aspects of acceptance: repetition, monotony and rigidity compared to variation, rhythm and flexibility.

11.936G Resources for Buildings

C2

Sources of information on material, technological manpower and energy resources for building on a regional, national and global scale. Assessment of resources of a given regional and national economy. Infrastructure. Pattern of change and future forecasts. The energy-equivalents of processed building materials, of placed building components, of servicing methods. The energy equivalence and prime cost. Recycling of building components. Energy and resource conservation on a short and long-term basis. The problems of energy and conservation and resource-recovery in a given system.

Building

35.100G Project Report

Students with a grade average of Credit or better in their course work may choose to write a Project Report to qualify for the degree with honours. This will require a specialized individual study taken under staff supervision, with the objective of allowing the student to expand knowledge in some aspect of building management.
The Project Report may be taken full-time over one session or part-time over two sessions following the satisfactory completion of all course work subjects. As part of the examination of the Project Report, students will be required to make an oral presentation of the subject matter covered in their report.

35.101G Economics and Finance S1 L2 T1
Economic modelling; a model of the Australian economy; economic targets and instruments; fiscal and monetary policies; the structure of the building industry; productivity and competition; land use theory; the structure of the financial market; sources of finance; costs of finance. Systems for effective management: types of systems and their characteristics. Communication and information systems. The changing environment and practice of management.

35.102G The Management Framework S1 L2 T1
Definition of management, its functions, authority and responsibility; the manager as administrator, managerial and social scientist, entrepreneur and psychologist. The manager and ethics. Scientific management: theory of organisation and management; the human relations approach. Organisational effectiveness: objectives, strategies, policies and measures of performance. The functions of management: planning, organising and control. The decision making process—decision theory, decision trees.

35.103G Computers in Management S1 L2 T1
The Nature of Information: qualitative v quantitative; numbers v text v graphics; precise v indicative. Useful application packages: spreadsheet programs; data base systems; word processing; construction scheduling; finance control. Computer graphics: operating systems; languages, such as basic; data communications and networks. Computer system acquisition: hardware, maintenance, environment, software, ongoing support; hardware and software maintenance.

35.201G Financial Analysis S2 L4
Topics included are: discounted cash flow technique; time series and forecasting; distributions and probabilities; portfolio management theories.

35.203G Project Planning and Control Techniques S2 L2 T1
Operational analysis—operation research techniques; concept of a model; optimization. Critical path method—arrow and precedence diagrams; critical paths and floats; project control; time-cost trade offs; basic overlapping networks; resource allocation and levelling. Review of other planning techniques—linear programming; work study; line of balance; multi-activity charting; PERT. Survey of computerised planning systems. Value engineering and its applications. Cost planning theory.

35.204G Personnel Management Techniques S2 L2 T1
Australian labour market, recruitment and remuneration and training. Interpersonal relationships in the work place, motivation and negotiating, group behaviour and personnel behaviour. Industrial relations in Australia with particular emphasis on the building industry. Statutory responsibilities of employing labour (safety, welfare, superannuation, awards, equal opportunity, etc.).

35.301G Project Feasibility S1 L2 T1
Design Feasibility: feasibility studies; cost planning practice; economics of services in building; maintenance methods and costs. Land Economies: land resources; market and location of urban land uses; spatial and urban growth; property and investment markets; economics of development; investment appraisal; environmental impact studies.

35.302G Building Contracts S1 L2 T1
Acts, regulations, codes and ordinances; selection and preparation of contract documents for management, design and construction of building projects; legal and insurance aspects of alternative forms of contract; procedural and management aspects of alternative forms of contract; head contracts and subcontract; contract claims and disputes; international contracting.

35.303G Management of the Design and Construction Process S1 L2 T1
Organisation of projects; facility procurement options; management of the design process; briefs—clients and consultants; Cost management fundamentals; project team building and motivation; application of value management; management of the design and construction overlap; Legal aspects of project management; project control systems.

35.401G Management of Buildings S2 L2 T1
Maintenance and obsolescence; economics of refurbishment; marketing; tenancy management; building control and security systems; management of commercial, retail, industrial and large scale residential complexes; legal aspects of tenancy management; energy conservation; taxation law and implications.

35.402G Project Applications S2 L2 T1
Introduction to case studies; the structure, purpose and value of case studies. Detailed analysis of each phase of the project case study: economic planning and feasibility; design, design management buildability; construction, program, process, cost, personnel management. Staff presentation of case studies. Tutorial sessions. Presentation of student case studies.

This subject relies on the involvement of major construction organisations who are prepared to permit the detailed analysis of past projects. A significant potential benefit for participating organisations in providing a thorough, structured review of their project.

It is proposed that company involvement should extend to senior staff being involved in the critique and assessment process.
Town Planning

36.934G Introduction to Planning (G)  SS L3
Structure of towns, cities and regions. Needs and activities of people. Land use, transport and service systems. Planning theories, aims and objectives. Planning at different scales and in different time frames. Planning as a process. Planning studies, information systems, statistics, research methodology, computer applications.

36.935G Local Planning 1 (G)  SS L3
Theories at the local level: neighbourhood and precinct concepts, local community structure, survey and analysis. Subdivision and housing layout, basic transportation planning and management, street design, landscaping, utilities. Practice of planning new neighbourhoods and proposals for conservation and redevelopment.

36.936G Local Planning 2 (G)  SS L3

36.937G Regional Planning 1 (G)  SS L3
Theories at the metropolitan level. Accessibility, equity, economics, politics. Structure and organization, land use and transportation relationships. Forecasting, alternative futures. Incremental decision making. Integrating local and metropolitan planning.

36.938G Regional Planning 2 (G)  SS L3

36.939G Law and Administration Planning (G)  SS L3

36.922G Communications and Public Utilities
Interaction of land use and transportation. Vehicular and pedestrian circulation patterns. Traffic function and capacity of district and neighbourhood roads. Principles and practice of local road construction, water supply, sewage treatment and disposal, and drainage. Local supply of electricity, gas, telephone, and other services.

36.923G Land and Housing Economics

36.924G Urban Sociology
A sociological approach to the study of urban phenomena. Lectures deal with both methodological and theoretical issues relating to the study of urban social structures. Seminars provide students with the opportunity to examine critically a number of community studies. A research project is undertaken by each student.

36.925G Housing Law and Administration
Housing acts and regulations at Commonwealth, State and local levels. Related town planning acts and ordinances. Commonwealth-State Housing Agreements. The organization and administration of public housing authorities. Significant overseas housing policies.

36.930G Theory of Neighbourhood Planning 1
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.

36.931G Theory of Neighbourhood Planning 2

36.932G Practice of Neighbourhood Planning 1

36.933G Practice of Neighbourhood Planning 2

36.934G Practice of Neighbourhood Planning 3

36.935G Practice of Neighbourhood Planning 4

39.104G Analysis and Documentation A

39.105G Analysis and Documentation B
Preparation of documentary studies: measurement, photography, reportage. Photogrammetry and its applications.

39.106G Conservation Technology A
The integrity of old buildings and their environments, including planning, landscape and architectural considerations. Effects of acts and ordinances.

39.107G Conservation Technology B
Identification, understanding and diagnosis of deterioration in traditional structure, construction, decoration and building environments. Development of general techniques for preservation, restoration, reconstruction and adaptation. Comfort criteria and other functional considerations.

39.108G Conservation Technology C
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
An appropriate conservation topic from any apposite area, including such fields and historical archaeology, documentation, legislation, economics, technology, or a specific building restoration project. Conditions governing submission of the Project Report appear in the Calendar.
Architecture

39.501G Industrial Design Studies
Prerequisite: Nil.

1. The objectives and methods of graduate study in industrial design: contemporary industrial design trends, the relationship between academic and practice objectives, the relationship between academic and practice objectives, the relationship of industrial design methodology and research techniques to those of other disciplines at the University. 2. A diverse range of current professional and theoretical interests, design and design related activities in Australia and overseas, current ideologies and historical assessments. Seminars are given by students, theorists, and practitioners in design and design related areas.

39.502G Graduate Project (MID)
Co-requisite: 39.522G.

A project within the practice areas of industrial design, selected by the student subject to the approval of the School; conducted within an approved methodology. Documentation of the methodology, research strategy and techniques, monitoring of the design process, resultant design, and evaluation of the methodology, research and final design. Students should give consideration to the School's specialist areas.

39.503G Design Media and Communication
Prerequisite: Nil.

The major two and three dimensional media and computer techniques are analysed and demonstrated within the context of industrial design problem solving: orthographic techniques, the Australian Engineering Drawing Standard, graphic art processes, photography, current rendering and illustration techniques, modelling in automotive clay, plastic sheet and rigid foams, timbers and metals. The current state of computer aided design as well as its potential in design and the restructuring of engineering decision-making and drafting. Particular emphasis given to each method's role in problem analysis and communication at the concept, detail and final design stages. The social and physiological aspects of communicating design in industry are also examined.

39.511G Ergonomics for Industrial Designers
Prerequisite: Nil.

Objectives, methodology and research techniques of ergonomics. Man/machine, interaction, human perception and performance, anthropometrics, product evaluation, the establishment of ergonomic parameters in product design and the application of ergonomics in design, the interrelationship of ergonomics and industrial design in the product development process. Students carry out laboratory experiments related to project work and also contribute to the development of a data bank.

39.512G Design Theory
Prerequisite: 39.501G.

Research into a theory aspect of industrial design, selected by the student subject to the approval of the School, in the general area of design and design related studies. Students should give consideration to the School's specialist areas. The study may be taken in product design but should not be directly linked to studio project work being undertaken by the student.

39.513G Visual Thinking
Prerequisite: Nil.

Visual language, media, problems and problem solving methods. The relationship between visual thinking and creative processes. Studies are undertaken in two and three dimensions and are developed within the context of art and design.

39.521G Business Studies for Industrial Designers
Prerequisite: Nil.

The theory and practice of business and industrial management, and marketing. Its application in the product development process and the relation of the process to other business and industrial objectives. Special reference to the Australian industrial context and potential developments resulting from technological and socio-economic change. Professional practice and the management of design organizations in the general context of business and industrial management.

39.522G Industrial Design
Co-requisite: 39.501G.

Industrial design project work intended to integrate the students' previous experience and the course units in preparatory work for the Graduate Project. A part of the course may be undertaken on a group basis.

39.523G Industrial Design A
Co-requisite: 39.501G.

Project work designed to introduce industrial design research and studio methodologies. Studies undertaken within a broad range of product areas and related to the concurrent course work.

39.531G Manufacturing Technology
Prerequisite: Nil.

Industrial processes and materials, production costing and changing production economics. Objectives and structures of the engineering professions and their integration with industrial design in the product development process. Students assist in the development of a data bank.

39.533G Industrial Design B
Co-requisite: 39.523G.

Advanced project work combining the research and practice methodologies of industrial design in product research, development and design, preparatory to undertaking the Graduate Project.
39.541G Industrial Experience

Prerequisite: Enrolment in one of the degrees.

A four week period of approved industrial experience undertaken by full-time students in the mid-year recess and by part-time students in either the mid-year or summer recess. The period is intended to give students first hand interaction with industrial and commercial operations. Normally students are expected to be involved in design activities, however involvement in production, engineering, management and marketing is also considered. Part-time students in approved employment are exempt.

39.543G Graduate Project (MSc(IndDes))

Co-requisite: 39.533G.

A project within the practice areas of industrial design, proposed by the student in consultation with the School and conducted within an approved methodology; documentation of the methodology, research strategy and techniques; monitoring of the design process, resultant design, and evaluation of the methodology, research and design.

39.651G Mechanical Shock and Vibration

Prerequisite: Nil.

Vibrating systems, strings, rods, beams; plates, shells; radiation characteristics of noise sources; random vibration; structures; fatigue, filters, isolators, attenuators, dampers; impedance.

39.652G Noise Control in Industry

Prerequisite: Nil.

Hearing conservation and community noise; standards and regulations; industrial noise sources; mechanical noise; electrical machinery, aerodynamic noise, jets, ventilation system noise, combustion noise; vibration; noise-reduction techniques; transmission and insertion loss; absorbers; impedance mismatch; vibration isolation; enclosures, barriers; room acoustics; practical measurement of sound power, sound pressure and directivity.

39.901G Acoustic Measuring Systems and Electroacoustics

Prerequisite: Nil.

Transducers; microphones; amplifiers; loudspeakers; filters, recorders, pick-ups; noise generators; acoustic measuring instruments. Sound-reinforcement systems; ambiphony; assisted resonance. Special requirements for translation, language laboratories.

39.902G Advanced Physical Acoustics

Prerequisite: Nil.

Vibrating systems: coupled oscillators, beams, membranes, plates, resonators, acoustic filters, analogs, analogue computer simulation of vibrating systems; transfer of energy from one system to another. Reflection and transmission at walls, rigid walls, flexible walls, multiple walls, impulsive excitation. Sound absorbers: porous absorbers, perforated panel absorbers, sonic and ultrasonic measurement techniques, relation to properties of materials.

39.993G The Ear, Hearing and Hearing Conservation

Prerequisite: Nil.

Physiological and psychoacoustic factors in sound perception; discrimination, masking; loudness and annoyance; subjective scales and units; hearing threshold shift; damage risk criteria; hearing conservation programs and audiometry; standards and regulations.

39.994G Graduate Project A

Prerequisite: 10 credit points.

An individual research project on an approved topic in acoustics; preliminary report.

39.995G Community Noise

Prerequisite: Nil.

Sources of community noise; sound propagation out of doors; barrier theory; road, rail and air transportation noise; land-use zoning; measurement and assessment of community noise annoyance; standards, acts and regulations.

39.996G Graduate Project B

Prerequisite: 39.994G.

An individual research project on an approved topic in acoustics; final report.

39.997G Auditorium Acoustics

Prerequisite: Nil.

Subjective and objective criteria for speech and music; speech intelligibility; characteristics of musical sources; reverberation theory, diffusion; steady-state and transient room response; design methods including graphical and model analysis; sound reflectors; sound absorbents.

39.998G Noise Control in Buildings

Prerequisite: Nil.

Airborne and impact sound transmission theory and measurement; vibration isolation; single, multiple-leaf and composite partitions; ventilation, plumbing and services noise control; criteria; regulations and standards.

Servicing Subject

Servicing subjects are those taught within courses offered by other faculties.

For further information regarding the following subject see the Applied Science Handbook.
Introduction; sound and sound propagation; sound power, sound pressure, decibels; sound perception, psychoacoustics; loudness, annoyance, phons and dB(A); hearing conservation; acoustic measuring and analysing instruments — sound level meters, filters, analysers, recorders; sound sources; community noise assessment; the NSW Noise Control Act; practical exercises in sound recording, analysis and assessment; noise control — source noise reduction, use of barriers, enclosures, distance, sound absorbing materials; sound transmission through building elements; noise components of environmental impact statements.
Graduate Study: Conditions for the Award of Higher Degrees

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

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

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

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

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

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Graduate Study: Conditions for the Award of Higher Degrees

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Graduate Diplomas
- Applied Science
- Architecture
- Engineering
- Sciences*
- Medicine
- Professional Studies
- Sciences*

*Faculty of Science.
†Faculty of Biological Sciences.

Higher Degrees

Doctor of Philosophy (PhD)

Qualifications

Enrolment and Progression

1. The degree of Doctor of Philosophy may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty or board (hereinafter referred to as the Committee) to a candidate who has made an original and significant contribution to knowledge.

2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor with Honours from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

   (2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

   (3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment as a candidate for the degree.

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

   (2) In every case, before permitting a candidate to enrol, the head of the school* in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available.

   (3) An approved candidate shall be enrolled in one of the following categories:

      (a) full-time attendance at the University;
      (b) part-time attendance at the University.

   (4) A full-time candidate shall be fully engaged in advanced study and research except that the candidate may undertake not more than five hours per week or a total of 240 hours per year on work which is not related to the advanced study and research.

   (5) Before permitting a part-time candidate to enrol, the Committee shall be satisfied that the candidate can devote at least 20 hours each week to advanced study and research for the degree which (subject to (8)) shall include regular attendance at the school* on an average of at least one day per week for 48 weeks each year.

*Or department where a department is not within a school.
(6) A candidate shall be required to undertake an original investigation on an approved topic. The candidate may also be required to undergo such assessment and perform such other work as may be prescribed by the Committee.

(7) The work shall be carried out under the direction of a supervisor appointed from the full-time academic members of the University staff.

(8) The work, other than field work, shall be carried out in a school* of the University except that the Committee:

(a) may permit a candidate to spend not more than one calendar year of the program in advanced study and research at another institution provided the work can be supervised in a manner satisfactory to the Committee;

(b) may permit a candidate to conduct the work at other places where special facilities not possessed by the University may be available provided the direction of the work remains wholly under the control of the supervisor;

(c) may permit a full-time candidate, who has been enrolled as a full-time candidate for at least six academic sessions, who has completed the research work and who is writing the thesis, to transfer to part-time candidature provided the candidate devotes at least 20 hours each week to work for the degree and maintains adequate contact with the supervisor.

(9) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school* in which the candidate is enrolled and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

(10) No candidate shall be awarded the degree until the lapse of six academic sessions from the date of enrolment in the case of a full-time candidate or eight academic sessions in the case of a part-time candidate. In the case of a candidate who has had previous research experience the Committee may approve remission of up to two sessions for a full-time candidate and four sessions for a part-time candidate.

(11) A full-time candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. A part-time candidate for the degree shall present for examination not later than twelve academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

4. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the investigation.

(2) The candidate shall give in writing to the Registrar two months notice of intention to submit the thesis.

(3) The thesis shall comply with the following requirements:

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

(b) the greater proportion of the work described must have been completed subsequent to enrolment for the degree;

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

(d) it must reach a satisfactory standard of expression and presentation;

(e) it must consist of an account of the candidate's own research but in special cases work done conjointly with other persons may be accepted provided the Committee is satisfied about the extent of the candidate's part in the joint research.

(4) The candidate may not submit as the main content of the thesis any work or material which has previously been submitted for a university degree or other similar award but may submit any work previously published whether or not such work is related to the thesis.

(5) Four copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees.

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

5. (1) There shall be not fewer than three examiners of the thesis, appointed by the Professorial Board on the recommendation of the Committee, at least two of whom shall be external to the University.
(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:

(a) the candidate be awarded the degree without further examination; or
(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school*; or
(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or
(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or
(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate be permitted to resubmit the thesis after a further period of study and/or research.

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

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1. The degree of Master of Architectural Design by formal course work may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

2. (1) A candidate for the degree shall:

(a) have been awarded the degree of Bachelor of Architecture with Honours from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Architecture (hereinafter referred to as the Committee), and
(b) have had at least one year's professional practice subsequent to graduation of a kind acceptable to the Committee.

(2) In exceptional cases an applicant who submits evidence of such academic and/or professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the degree until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or three sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions from the date of enrolment for a full-time candidate and six sessions for a part-time candidate. In special cases an extension of these times may be granted by the Committee.

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

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*Or department where a department is not within a school.
1. The degree of Master of Architecture or Master of Building or Master of the Built Environment or Master of Landscape Architecture or Master of Town Planning by research may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Architecture (hereinafter referred to as the Committee) to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation or design.

Qualifications

2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor of four full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

   (2) In exceptional cases an applicant who submits evidence of such academic and/or professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

   (3) When the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant, before being permitted to enrol, to undergo such examination or carry out such work as the Committee may prescribe.

Enrolment and Progression

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

   (2) In every case, before permitting a candidate to enrol, the head of the school in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available.

   (3) An approved candidate shall be enrolled in one of the following categories:

      (a) full-time attendance at the University;

      (b) part-time attendance at the University;

      (c) external — not in regular attendance at the University and using research facilities external to the University.

   (4) A candidate shall be required to undertake an original investigation or design on an approved topic. The candidate may also be required to undergo such examination and perform such other work as may be prescribed by the Committee.

   (5) The work shall be carried out under the direction of a supervisor appointed from the full-time members of the University staff.

   (6) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school in which the candidate is enrolled and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

   (7) No candidate shall be granted the degree until the lapse of three academic sessions in the case of a full-time candidate or four academic sessions in the case of a part-time or external candidate from the date of enrolment. In the case of a candidate who has been awarded the degree of Bachelor with Honours or who has had previous research experience the Committee may approve remission of up to one session for a full-time candidate and two sessions for a part-time or external candidate.

   (8) A full-time candidate for the degree shall present for examination not later than six academic sessions from the date of enrolment. A part-time or external candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

Thesis

4. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the original investigation or design.

   (2) The candidate shall give in writing two months notice of intention to submit the thesis.

   (3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.
(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.

(5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses.

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

5. (1) There shall be not fewer than two examiners of the thesis, appointed by the Professorial Board on the recommendation of the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the merits of the thesis and shall recommend to the Committee that:

(a) the candidate be awarded the degree without further examination; or

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to a further oral, practical or written examination within a period specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the reports of any oral or written or practical examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.

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

1. The degree of Master of the Built Environment (Building Conservation) or Master of Industrial Design or Master of Science (Acoustics) or Master of Science (Building) or Master of Science (Industrial Design) may be awarded by the Council to a candidate who has completed a program of advanced study.

2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor of four full time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Architecture (hereinafter referred to as the Committee).
(2) In exceptional cases an applicant who submits evidence of such academic and/or professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

Enrolment and Progression

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the degree until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or four sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions from the date of enrolment for a full-time candidate and eight sessions for a part-time candidate. In special cases an extension of these times may be granted by the Committee.

Project Report

4. (1) A candidate shall also be required to undertake a project on an approved topic.

(2) The work shall be carried out under the direction of a supervisor appointed from the full-time academic members of the University staff.

(3) The candidate shall give in writing to the Registrar two months notice of intention to submit a report on the project.

(4) Three copies of the project report shall be presented in a form which complies with the requirements of the University for the preparation and submission of project reports for higher degrees.

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

Examination

5. (1) There shall be not fewer than two examiners of the project report, appointed by the Professorial Board on the recommendation of the Committee.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the project report and shall recommend to the Committee that:

(a) the project report be noted as satisfactory; or

(b) the project report be noted as satisfactory subject to minor corrections being made to the satisfaction of the head of the school; or

(c) the project report be noted as unsatisfactory but that the candidate be permitted to resubmit it in a revised form after a further period of study and/or research; or

(d) the project report be noted as unsatisfactory and that the candidate be not permitted to resubmit it.

(3) The Committee shall, after considering the examiners’ reports and the candidate’s results of assessment in the prescribed formal subjects, recommend whether or not the candidate may be awarded the degree. If it is decided that the project report is unsatisfactory the Committee shall determine whether or not the candidate may resubmit it after a further period of study and/or research.

Fees

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

Master of Engineering (ME) and Master of Science (MSc)

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

2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

(2) An applicant who submits evidence of such other academic or professional attainments as may be approved by the Committee may be permitted to enrol for the degree.

(3) When the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant, before being permitted to enrol, to undergo such examination or carry out such work as the Committee may prescribe.

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

(2) In every case, before permitting a candidate to enrol, the head of the school* in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:

(a) full-time attendance at the University;
(b) part-time attendance at the University;
(c) external — not in regular attendance at the University and using research facilities external to the University.

(4) A candidate shall be required to undertake an original investigation on an approved topic. The candidate may also be required to undergo such examination and perform such other work as may be prescribed by the Committee.

(5) The work shall be carried out under the direction of a supervisor appointed from the full-time members of the University staff.

(6) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school* in which the candidate is enrolled and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

(7) No candidate shall be granted the degree until the lapse of three academic sessions in the case of a full-time candidate or four academic sessions in the case of a part-time or external candidate from the date of enrolment. In the case of a candidate who has been awarded the degree of Bachelor with Honours or who has had previous research experience the Committee may approve remission of up to one session for a full-time candidate and two sessions for a part-time or external candidate.

(8) A full-time candidate for the degree shall present for examination not later than six academic sessions from the date of enrolment. A part-time or external candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

4. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the original investigation.

(2) The candidate shall give in writing two months notice of intention to submit the thesis.

(3) The thesis shall present an account of the candidate's own research. In special cases work done jointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.

(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.

(5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses.

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

*Or department where a department is not within a school.
Examination

5. (1) There shall be not fewer than two examiners of the thesis, appointed by the Professorial Board on the recommendation of the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the merits of the thesis and shall recommend to the Committee that:

(a) the candidate be awarded the degree without further examination; or

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school*; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to a further oral, practical or written examination within a period specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the reports of any oral or written or practical examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.

Fees

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

Master of Engineering (ME), Master of Science (MSc) and Master of Surveying (MSurv) without supervision

Qualifications

1. The degree of Master of Engineering or Master of Science or Master of Surveying without supervision may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee) to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.

2. A candidate for the degree shall have been awarded an appropriate degree of Bachelor from the University of New South Wales with at least three years relevant standing in the case of Honours graduates and four years relevant standing in the case of Pass graduates, and at a level acceptable to the Committee.

Enrolment

3. An application to enrol as a candidate for the degree without supervision shall be made on the prescribed form which shall be lodged with the Registrar not less than six months before the intended date of submission of the thesis. A graduate who intends to apply in this way should, in his or her own interest, seek at an early stage the advice of the appropriate head of school* with regard to the adequacy of the subject matter and its presentation for the degree. A synopsis of the work should be available.

Thesis

4. (1) A candidate shall submit a thesis embodying the results of the investigation.

(2) The candidate shall give in writing to the Registrar two months notice of intention to submit the thesis.

(3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.

(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.

(5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees.

*Or department where a department is not within a school.
(6) It shall be understood that the University retains the three copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.

5. (1) There shall be not fewer than two examiners of the thesis, appointed by the Professorial Board on the recommendation of the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.

(2) Before the thesis is submitted to the examiners the head of the school* in which the candidate is enrolled shall certify that it is *prima facie* worthy of examination.

(3) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:

(a) the candidate be awarded the degree without further examination; or
(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school*; or
(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or
(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or
(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(4) If the performance at the further examination recommended under (3)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.

(5) The Committee shall, after consideration of the examiners’ reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.

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

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1. A Graduate Diploma may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

2. (1) A candidate for the diploma shall have been awarded an appropriate degree of Bachelor from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee).

(2) An applicant who submits evidence of such other academic or professional attainments as may be approved by the Committee may be permitted to enrol for the diploma.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

3. (1) An application to enrol as a candidate for the diploma shall be made on the prescribed form which shall be lodged with the Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.
(2) A candidate for the diploma shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the diploma until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or four sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions from the date of enrolment for a full-time candidate and six sessions for a part-time candidate. In special cases an extension of these times may be granted by the Committee.

Fees

4. A candidate shall pay such fees as may be determined from time to time by the Council.
Scholarships and Prizes

The scholarships and prizes listed below are available to students whose courses are listed in this handbook. Each faculty handbook contains in its Scholarships and Prizes section the scholarships and prizes available with that faculty. The General Information section of the Calendar contains a comprehensive list of scholarships and prizes offered throughout the University.

Scholarships

Undergraduate Scholarships

Listed below is an outline only of a number of scholarships available to students. Full information may be obtained from Room G20, located on the Ground Floor of the Chancellery.

Unless otherwise indicated in footnotes, applications for the following scholarships should be made to the Registrar by 14 January each year. Please note that not all of these awards are available every year.

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
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<tbody>
<tr>
<td>General</td>
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<tr>
<td>Bursary Endowment Board*</td>
<td>$200 pa</td>
<td>Minimum period of approved degree/combined degree course</td>
<td>Merit in HSC and total family income not exceeding $6000</td>
</tr>
<tr>
<td>Sam Cracknell Memorial</td>
<td>Up to $3000 pa payable in fortnightly instalments</td>
<td>1 year</td>
<td>Prior completion of at least 2 years of a degree or diploma course and enrolment in a full-time course during the year of application; academic merit; participation in sport both directly and administratively; and financial need</td>
</tr>
<tr>
<td>Girls Realm Guild</td>
<td>Up to $1500 pa</td>
<td>1 year renewable for the duration of the course subject to satisfactory progress and continued demonstration of need</td>
<td>Available only to female students under 35 years of age who are permanent residents of Australia enrolling in any year of a full-time undergraduate course on the basis of academic merit and financial need</td>
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*Apply to The Secretary, Bursary Endowment Board, PO Box 460, North Sydney 2060, immediately after sitting for HSC.
Graduate Scholarships (continued)

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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>General (continued)</td>
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<tr>
<td>W. S. and L. B. Robinson**</td>
<td>Up to $4200 pa</td>
<td>1 year renewable for the duration of the course subject to satisfactory progress</td>
<td>Available only to students who have completed their schooling in Broken Hill or whose parents reside in Broken Hill; for a course related to the mining industry. Includes courses in mining engineering, geology, electrical and mechanical engineering, metallurgical process engineering, chemical engineering and science.</td>
</tr>
<tr>
<td>Universities Credit Union</td>
<td>$500 pa</td>
<td>1 year with the possibility of renewal</td>
<td>Prior completion of at least 1 year of any undergraduate degree course. Eligibility limited to members of the Universities Credit Union Ltd of more than one year’s standing or members of the family of such members.</td>
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</table>

**Applications close 30 September each year.

Graduate Scholarships

Application forms and further information are available from the Student Enquiry Counter, located on the Ground Floor of the Chancellor. Information is also available on additional scholarships which may become available from time to time, mainly from funds provided by organizations sponsoring research projects.

The following publications may also be of assistance: 1. Awards for Postgraduate Study in Australia and Awards for Postgraduate Study Overseas, published by the Graduate Careers Council of Australia, PO Box 28, Parkville, Victoria 3052; 2. Study Abroad, published by UNESCO; 3. Scholarships Guide for Commonwealth Postgraduate Students, published by the Association of Commonwealth Universities.

Where possible, the scholarships are listed in order of faculty.

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
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<tbody>
<tr>
<td>General</td>
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<tr>
<td>University of New South Wales Postgraduate Scholarships</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). Applications to Dean of relevant Faculty.</td>
</tr>
<tr>
<td>Commonwealth Postgraduate Research Awards</td>
<td>Living allowance of $7000 pa</td>
<td>Other allowances may also be paid.</td>
<td>Applicants must be honours graduates (or equivalent) or scholars who will graduate with honours in current academic year, and who are domiciled in Australia. Applications to Registrar by 31 October.</td>
</tr>
<tr>
<td>Commonwealth Postgraduate Course Awards</td>
<td>Living allowance of $8126 pa</td>
<td>Other allowances may also be paid.</td>
<td>Applicants must be graduates or scholars who will graduate in current academic year, and who have not previously held a Commonwealth Post-graduate Award. Preference is given to applicants with employment experience. Applications to Registrar by 30 September.</td>
</tr>
</tbody>
</table>

*Available for reference in the University Library.
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>Australian American Educational Foundation Travel Grant  (Fulbright)*</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 Caltex Woman Graduate Scholarships</td>
<td>Six State awards of $5000 each</td>
<td>1 year</td>
<td>Applicants must be female graduates who will have completed a University degree or diploma this year and who are Australian citizens or have resided in Australia for at least seven years. Selection is based on scholastic and literary achievements, demonstrable qualities of character and accomplishments in cultural and/or sporting/recreational activities. Applications close late September.</td>
</tr>
<tr>
<td></td>
<td>One National award valued at $22,000 pa for study at an approved overseas institution.</td>
<td>2 years</td>
<td></td>
</tr>
<tr>
<td>Commonwealth Scholarship and Fellowship Plan</td>
<td>Varies for each country. Generally covers travel, living, tuition fees, books and equipment, approved medical expenses. Marriage allowance may be payable.</td>
<td>Usually 2 years, sometimes 3</td>
<td>Applicants must be graduates who are Australian citizens and who are not older than 35 years of age. Applications close with Registrar in September or October each year.</td>
</tr>
<tr>
<td>The English-Speaking Union (NSW Branch)</td>
<td>$5000</td>
<td></td>
<td>Applicants must be residents of NSW or ACT. Awarded to young graduates to further their studies outside Australia. Applications close mid-April.</td>
</tr>
<tr>
<td>Frank Knox Memorial Fellowships at Harvard University</td>
<td>Stipend of US$6500 pa plus tuition fees</td>
<td>1, sometimes 2 years</td>
<td>Applicants must be British subjects and Australian citizens, who are graduates or near graduates of an Australian university. Applications close with the Registrar mid-October.</td>
</tr>
<tr>
<td>Gowrie Scholarship Trust Fund</td>
<td>$4000 pa. Under special circumstances this may be increased.</td>
<td>2 years</td>
<td>Applicants must be members of the Forces or children of members of the Forces who were on active service during the 1939-45 War. Applications close with Registrar by 31 October.</td>
</tr>
</tbody>
</table>

*Applications forms are available from, The Secretary, Department of Education and Youth Affairs AAEF Travel Grants, PO Box 826, Woden, ACT 2606.*
## 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>Harkness Fellowships of the Commonwealth Fund of New York**</td>
<td>Living and travel allowances, tuition and research expenses, health insurance, book and equipment and other allowances for travel and study in the USA</td>
<td>12 to 21 months</td>
<td>Candidates must be: 1. Either members of the Commonwealth or a State Public Service or semi-government Authority. 2. Either staff or graduate students at an Australian university. 3. Individuals recommended for nomination by the Local Correspondents. The candidate will usually have an honours degree or equivalent, or an outstanding record of achievement, and be not more than 36 years of age. Applications close 31 August.</td>
</tr>
<tr>
<td>The Rhodes Scholarship*</td>
<td>Approximately £3600 stg pa</td>
<td>2 years, may be extended for a third year</td>
<td>Unmarried male and female Australian citizens aged between 19 and 25 who have been domiciled in Australia at least 5 years and have completed at least 2 years of an approved university course. Applications close in mid-September each year.</td>
</tr>
<tr>
<td>Rothmans Fellowships Award††</td>
<td>$20000 pa</td>
<td>1 year, renewable up to 3 years</td>
<td>The field of study is unrestricted. Applicants must have at least 3 years graduate experience in research. Applications close in July.</td>
</tr>
<tr>
<td>Sam Cracknell Memorial</td>
<td>Up to $3000 pa</td>
<td></td>
<td>See above under Undergraduate Scholarships, General</td>
</tr>
</tbody>
</table>

## Architecture

<table>
<thead>
<tr>
<th>Scholarship</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>$1500 pa or such other amount as the Dean may determine</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>Byera Hadley Travelling Scholarships*</td>
<td>$5000 pa</td>
<td>1 year</td>
<td>Awarded to outstanding graduates of a school of architecture in New South Wales for a course of study or research, or other activity contributing to the advancement of architecture. Graduates must be Australian citizens and awards are eligible up to 8 years from graduation.</td>
</tr>
</tbody>
</table>

**Applications forms must be obtained from the Australian representative of the fund. Mr J. T. Larkin, Department of Trade, Edmund Barton Building, Kings Avenue Barton, ACT 2600 These must be submitted to the Registrar by 15 August.**

††Applications to the Secretary, Rothmans University Endowment Fund, University of Sydney, NSW 2006.

*Applications to the Honorary Secretary of the NSW Committee, University of Sydney, NSW 2006.

**Applications to the Registrar, Board of Architects of New South Wales, 53a McLaren Street, North Sydney 2060, not later than 31 March each year.
Undergraduate University Prizes (continued)

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Architecture (continued)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Lindsay Robertson Memorial Travel Award</td>
<td>A maximum of $1500 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 institution. Applications close 30 May.</td>
</tr>
<tr>
<td>The Master Builders' Association of NSW</td>
<td>$500 1 year</td>
<td>Applicants must be graduates who have enrolled in the Master of Science (Building) degree course.</td>
</tr>
<tr>
<td>Wightman/University Scholarship</td>
<td>$2000 pa 1 year</td>
<td>Best final year student in BArch degree course proceeding to graduate study. Applications close 30 September.</td>
</tr>
</tbody>
</table>

Prizes

Undergraduate University Prizes

The following table summarizes the undergraduate prizes awarded by the University. Prizes which are not specific to any School are listed under General. All other prizes are listed under the Faculty or Schools in which they are awarded.

Information regarding the establishment of new prizes may be obtained from the Examinations Section located on the Ground Floor of the Chancellery.

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sydney Technical College Union Award</td>
<td>150.00  and medal</td>
<td>Leadership in the development of student affairs, and academic proficiency throughout the course.</td>
</tr>
<tr>
<td>University of New South Wales Alumni Association</td>
<td>Statuette</td>
<td>Achievement for community benefit – students in their final or graduating year.</td>
</tr>
<tr>
<td><strong>School of Architecture</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Board of Architects of New South Wales</td>
<td>250.00</td>
<td>An outstanding graduand in the School of Architecture.</td>
</tr>
<tr>
<td>Eric Daniels in Residential Design</td>
<td>500.00</td>
<td>Best performance in design for Residential Accommodation by a student in the Bachelor of Architecture degree course.</td>
</tr>
<tr>
<td>Frank Fox Memorial</td>
<td>150.00</td>
<td>11.4334 Historical Research C.</td>
</tr>
<tr>
<td>Frank W. Peplow</td>
<td>100.00</td>
<td>Church Architecture or Design.</td>
</tr>
<tr>
<td>James Hardie &amp; Co Pty Ltd</td>
<td>150.00</td>
<td>General proficiency throughout the Bachelor of Architecture degree course.</td>
</tr>
<tr>
<td>Morton Herman Memorial</td>
<td>100.00</td>
<td>Best performance in 11.4336 Measured Studies of Historic Structures in the Bachelor of Architecture degree course.</td>
</tr>
</tbody>
</table>
## Undergraduate University Prizes (continued)

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>School of Architecture (continued)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Royal Australian Institute of Architects</td>
<td>250.00</td>
<td>Outstanding performance by a student in Architectural Design and related subjects in the final two years of the course</td>
</tr>
<tr>
<td><strong>School of Building</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Builders Licensing Board</td>
<td>250.00</td>
<td>Best thesis in the final year of the Bachelor of Building degree course</td>
</tr>
<tr>
<td>Institute of Wood Science (Australian Branch) — Timber in Building</td>
<td>Book and cheque to 35.609 Building Science 9 (Timber) the value of 100.00</td>
<td></td>
</tr>
<tr>
<td>James Hardie &amp; Co Pty Ltd</td>
<td>100.00</td>
<td>Bachelor of Building degree course, Year 1</td>
</tr>
<tr>
<td>Master Builders’ Association of New South Wales</td>
<td>300.00</td>
<td>Merit performance in the Bachelor of Building degree course</td>
</tr>
<tr>
<td><strong>School of Landscape Architecture</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lindsay Robertson Memorial</td>
<td>300.00</td>
<td>37.7134 Landscape Design 2</td>
</tr>
<tr>
<td><strong>School of Town Planning</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>John Shaw Memorial</td>
<td>400.00</td>
<td>Best result in Thesis in the Bachelor of Town Planning degree course</td>
</tr>
<tr>
<td>The NSW Department of Environment and Planning</td>
<td>150.00</td>
<td>Bachelor of Town Planning degree course, Year 5</td>
</tr>
<tr>
<td>NSW Local Government Association of Planners</td>
<td>150.00</td>
<td>Best thesis produced by a final year student on a topic related to local government planning</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>
</tbody>
</table>

## Graduate University Prizes

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

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>School of Building</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alex Rigby</td>
<td>105.00</td>
<td>Master of Science (Building) — distinguished graduate</td>
</tr>
<tr>
<td>T. W. Crow</td>
<td>100.00</td>
<td>35.276G Construction Planning</td>
</tr>
</tbody>
</table>
Staff

Comprises School of Architecture, including Department of Industrial Arts; Schools of Building, Landscape Architecture, Town Planning; and Graduate School of the Built Environment.

Dean
Professor A. R. Toakley

Chairman
Professor H. L. Westerman

Senior Administrative Officer
Brian John Newell, BCom N.S.W.

Professional Officers
Terrence Edward Gill, BE N.S.W.
Roderick Craig McGregor, BSc N.S.W.
Richard Rosenberger, BE Timisoara

Visiting Professor
Laszlo Peter Kollar, MArch PhD N.S.W., ASTC

Associate Professors
John Albyn Ballinger, BArch Adel., FRAIA
Russell Callam Jack, MArc N.S.W., ASTC, FRAIA
Peter Thomas Oppenheim, BArch Cape T., MArc PhD N.S.W., ARIBA
Kenneth James Wyatt, BE Old., MBdgSc Syd., MIEAust

Senior Lecturers
Victor Martin Berk, BArch DipAdmin N.S.W.
John Richard Cooke, BArch Syd., LLB MSc(Building) N.S.W., FRAIA
Paul-Alan Johnson, BArch Syd., DipCD N.S.W., FRAIA
Bruce Herbert Judd, BArch PhD Syd., ARAIA
Geoffrey Kenneth Le Sueur, BArch GradDip N.S.W., ARAIA
Nicholas Marinov, DipArch Prague, MArc N.S.W.
Richard Patrick Parlour, BSc Lond., PhD N.S.W., DipEng Lough.
Peter Reginald Proudfoot, BArch Syd., MArch Penn., PhD N.S.W., Rome Scholar, ARAIA
Nancy Claire Ruck, BArch N.Z., MBdgSc Syd., PhD N.S.W., FIES, FRAIA, ANZIA
Vinzenz Franz-Josef Sedlak, DiplIngArch T.U. Graz, MPhil Sur.
Clive William Stevens, MArch N.S.W., MSc Sur., DipTCP Syd., ASTC
Barry Vivian Wollaston, BArch Syd., MArch N.S.W., FRAIA

Lecturers
Chris LeRoy Bell, BA(Arch) Calif.
Robert John Bryant, BArch N.S.W., MTCP Syd., ASTC,
DipEnvStud Macq., MAPl, ARAIA
Marion Anne Burgess, BSc Syd., MSc(Acoustics) N.S.W., MAAS
Geoffrey Lindsay Dwyer, FRAIA
Richard Grantley Fitzhardinge, DipArch Kingston on Thames Poly.,
MArch Calif., ARIBA, ARAIA
John Barrie Fraser, DipArt(Ed)
Architecture

Elizabeth Ann Howard, BArch Syd., BA Macq.
Alan Ogg, BE N.S.W., MArch Penn.
James David Plume, MArch Syd.
Harry Anthony Stephens, BArch DiplLD N.S.W., FRAIA
Kwong Hon Tang, BArch H.K., MArch Melb.

Tutor
Stephen Peter, BArch Syd.

Administrative Assistant
Harold Percy Chambers, BA S.Pac.

School of Landscape Architecture

Professor of Landscape Architecture
Vacant

Associate Professor and Head of School
Finn Christopher Thorvaldson, BArch N.S.W., MLA Mich., ARAIA, AAILA

Lecturers
Ojars Indulis Greste, ME N.S.W., DEng Calif.
Karl Goran Runeson, BA N.S.W., MAIB
Clyde Donald Smythe, MBuild N.S.W., ASTC, MAIB

School of Building

Associate Professor and Head of School
Roger Mark Anthony Miller, BBuild N.S.W., SM CE M.I.T., FAIB, MACS

Professor of Building
Arthur Raymond Toakley, BCE BA MEngSc Melb., PhD Manc., CEng, FIEAust, FAIB

Senior Lecturers
David Nevil Hume Hassall, BE MBdgSc Syd., MIEAust
John Malcolm Hutcheson, MC, BE Syd., BCom Qld., MBA PhD N.S.W., FCIS, FIEAust, AAPI, FID, FIArbA, AAUQ, LGE, FAIB, FAIM, FSLE, FCDA, FASA, CPA
Graham Edward Levido, BBuild MSc(Building) N.S.W., MAIB
Marlon Maroszyk, BE N’cie (N.S.W.), MEngSc N.S.W., MIEAust, MAIB
Thomas Edward Uher, BBuild MSc(Building) N.S.W., MAIB

Lecturers
Peter Ashton Murphy, BA Syd., PhD Macq.
Sophie Hester Watson, BA CertEd Sus., PhD Open.
Danny Barry Wiggins, BTP PhD N.S.W., MRAPI

School of Town Planning

Professor of Town Planning and Head of School
Hans Leo Westerman, ME Delft, FRAPI, MIEAust

Associate Professor
Elias David Dusko-Cohen, BArch Liv., MA Oxf., DipTP Lond., FRAPI, MRTPI, ARIBA

Senior Lecturers
Stephen Harris, BTP N.S.W., FRAPI
Robert Boilies Zehner, BA Amh., MA PhD Mich., MASA

Lecturers
Peter Ashton Murphy, BA Syd., PhD Macq.
Sophie Hester Watson, BA CertEd Sus., PhD Open.
Danny Barry Wiggins, BTP PhD N.S.W., MRAPI
Graduate School of the Built Environment

Professor of Architecture and Head of School
John Christopher Haskell, DipTP Lond., MArch Natal, Rome Scholar, FRSA

Associate Professor
Anita Barbara Lawrence, MArch N.S.W., FRAIA, MAAS

Senior Lecturers
John Kyle Redmond, BA DiplD(Eng) C.S.A.D., MA R.C.A., FRSA, FDIA
Peter Leggett Reynolds, BArch PhD N.S.W.

Honorary Visiting Fellows
Sydney Allison Baggs, MArch DipLD PhD N.S.W., ASTC, FRAIA, AAILA, ARIBA
Robert Charles Lewis Irving, MArch N.S.W., ARMTC, FRAIA
<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Session 1</td>
<td>Session 2</td>
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<td>Session 1</td>
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<tr>
<td>9-10</td>
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<td>10-11</td>
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<td>11-12</td>
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<td>7-8</td>
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<td>8-9</td>
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</tr>
</tbody>
</table>
# The University of New South Wales Kensington Campus 1987

## Theatres

<table>
<thead>
<tr>
<th>Theatres</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomedical Theatres</td>
<td>E27</td>
</tr>
<tr>
<td>Central Lecture Block</td>
<td>E19</td>
</tr>
<tr>
<td>Classroom Block (Western Grounds)</td>
<td>H3</td>
</tr>
<tr>
<td>Rex Vowles Theatre</td>
<td>F17</td>
</tr>
<tr>
<td>Keith Burrows Theatre</td>
<td>J14</td>
</tr>
<tr>
<td>Main Building Theatrette</td>
<td>K14</td>
</tr>
<tr>
<td>Mathews Theatres</td>
<td>D23</td>
</tr>
<tr>
<td>Parade Theatre</td>
<td>E3</td>
</tr>
<tr>
<td>Science Theatre</td>
<td>F13</td>
</tr>
<tr>
<td>Sir John Clancy Auditorium</td>
<td>C24</td>
</tr>
</tbody>
</table>

## Buildings

### Affiliated Residential Colleges

<table>
<thead>
<tr>
<th>College</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>New (Anglican)</td>
<td>L6</td>
</tr>
<tr>
<td>Shalom (Jewish)</td>
<td>N9</td>
</tr>
<tr>
<td>Warrane</td>
<td>M7</td>
</tr>
<tr>
<td>Applied Science</td>
<td>F10</td>
</tr>
<tr>
<td>Architecture</td>
<td>H14</td>
</tr>
<tr>
<td>Arts (Morven Brown)</td>
<td>C20</td>
</tr>
<tr>
<td>Banks</td>
<td>F22</td>
</tr>
<tr>
<td>Barker Street Gatehouse</td>
<td>N11</td>
</tr>
<tr>
<td>Bassler College</td>
<td>C18</td>
</tr>
<tr>
<td>Biological Sciences</td>
<td>D26</td>
</tr>
<tr>
<td>Central Store</td>
<td>B13</td>
</tr>
<tr>
<td>Chancellery</td>
<td>C22</td>
</tr>
<tr>
<td>Chemistry</td>
<td>D12</td>
</tr>
<tr>
<td>Robert Heffron</td>
<td>E12</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>H20</td>
</tr>
<tr>
<td>Commerce (John Goodsell)</td>
<td>F20</td>
</tr>
<tr>
<td>Dalton (Chemistry)</td>
<td>F12</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>G17</td>
</tr>
<tr>
<td>Geography and Surveying</td>
<td>K17</td>
</tr>
<tr>
<td>Goldstein College</td>
<td>D16</td>
</tr>
<tr>
<td>Golf House</td>
<td>A27</td>
</tr>
<tr>
<td>Gymnasium</td>
<td>B5</td>
</tr>
<tr>
<td>House at Pooh Corner</td>
<td>N8</td>
</tr>
<tr>
<td>International House</td>
<td>C6</td>
</tr>
<tr>
<td>io Myers Studio</td>
<td>D6</td>
</tr>
<tr>
<td>John Goodsell (Commerce)</td>
<td>F20</td>
</tr>
<tr>
<td>Kanga’s House</td>
<td>C14</td>
</tr>
<tr>
<td>Kensington Colleges</td>
<td>C17</td>
</tr>
<tr>
<td>Main Building</td>
<td>K15</td>
</tr>
<tr>
<td>Goldstein</td>
<td>D16</td>
</tr>
<tr>
<td>Philip Baxter</td>
<td>D14</td>
</tr>
<tr>
<td>Main Building</td>
<td>K15</td>
</tr>
</tbody>
</table>

### General

<table>
<thead>
<tr>
<th>Department</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance Workshop</td>
<td>B13</td>
</tr>
<tr>
<td>Mathews Library</td>
<td>E22</td>
</tr>
<tr>
<td>Mechanical and Industrial Engineering</td>
<td>J17</td>
</tr>
<tr>
<td>Medicine (Administration)</td>
<td>B27</td>
</tr>
<tr>
<td>Menzies Library</td>
<td>E21</td>
</tr>
<tr>
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This Handbook has been specifically designed as a source of reference for you and will prove useful for consultation throughout the year.

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

The Calendar and Handbooks also contain a summary list of higher degrees as well as the conditions for their award applicable to each volume.

For detailed information about courses, subjects and requirements of a particular faculty you should consult the relevant Faculty Handbook.

Separate Handbooks are published for the Faculties of Applied Science, Architecture, Arts, Commerce, Engineering, Law, Medicine, Professional Studies, Science (including Biological Sciences and the Board of Studies in Science and Mathematics), the Australian Graduate School of Management (AGSM) and the Board of Studies in General Education.

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