Heraldic Description of Arms

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

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

Architecture

1978 Handbook
The address of the University of New South Wales is:

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

Telephone: (02) 663 0351
Telegraph: UNITECH, SYDNEY
Telex AA26054

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

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  Faculty of Architecture
  Handbook.
  Annual. Kensington.

University of New South Wales — Faculty of Architecture — Periodicals

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 12 September 1977, but may be amended without notice by the University Council

 Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Information</td>
<td>1</td>
</tr>
<tr>
<td>Some People Who Can Help You</td>
<td>1</td>
</tr>
<tr>
<td>Calendar of Dates</td>
<td>2</td>
</tr>
<tr>
<td>1978</td>
<td>2</td>
</tr>
<tr>
<td>1979</td>
<td>4</td>
</tr>
<tr>
<td>The Academic Year</td>
<td>4</td>
</tr>
<tr>
<td>Organization of the University</td>
<td>4</td>
</tr>
<tr>
<td>Council/Professorial Board/Faculties/Boards of Study/Schools/Executive Officers/Administration/Student Representation/Award of the University Medal/Subject Numbers/Textbook Lists/General Studies</td>
<td></td>
</tr>
<tr>
<td>Student Services and Activities</td>
<td></td>
</tr>
<tr>
<td>The University Library</td>
<td>5</td>
</tr>
<tr>
<td>Accommodation</td>
<td>6</td>
</tr>
<tr>
<td>Other Accommodation</td>
<td>6</td>
</tr>
<tr>
<td>Student Employment and Scholarships</td>
<td>6</td>
</tr>
<tr>
<td>Student Health</td>
<td>7</td>
</tr>
<tr>
<td>Student Counselling and Research</td>
<td>7</td>
</tr>
<tr>
<td>Student Amenities and Recreation</td>
<td>7</td>
</tr>
<tr>
<td>Physical Education and Recreation Centre</td>
<td>7</td>
</tr>
<tr>
<td>The Sports Association</td>
<td>8</td>
</tr>
<tr>
<td>Student Travel Concessions</td>
<td>8</td>
</tr>
<tr>
<td>University Union</td>
<td>8</td>
</tr>
<tr>
<td>Students' Union</td>
<td>8</td>
</tr>
<tr>
<td>Chaplaincy Centre</td>
<td>9</td>
</tr>
<tr>
<td>Other Services and Activities</td>
<td>9</td>
</tr>
<tr>
<td>Financial Assistance to Students</td>
<td>9</td>
</tr>
<tr>
<td>Tertiary Education Assistance Scheme</td>
<td>9</td>
</tr>
<tr>
<td>Scholarships, Cadetships, Prizes</td>
<td>10</td>
</tr>
<tr>
<td>Other Financial Assistance</td>
<td>10</td>
</tr>
<tr>
<td>Financial Assistance to Aboriginal Students</td>
<td>10</td>
</tr>
<tr>
<td>Fund for Physically Handicapped and Disabled Students</td>
<td>10</td>
</tr>
<tr>
<td>Rules and Procedures</td>
<td>11</td>
</tr>
<tr>
<td>Admission</td>
<td>11</td>
</tr>
<tr>
<td>Enrolment</td>
<td>11</td>
</tr>
<tr>
<td>Fees</td>
<td>15</td>
</tr>
<tr>
<td>Examinations</td>
<td>16</td>
</tr>
<tr>
<td>Essays</td>
<td>18</td>
</tr>
<tr>
<td>Student Conduct on Campus</td>
<td>19</td>
</tr>
<tr>
<td>Further Information</td>
<td>20</td>
</tr>
<tr>
<td>Vice-Chancellor's Official Welcome to New Students</td>
<td>20</td>
</tr>
<tr>
<td>Topic</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Foreword</td>
<td>21</td>
</tr>
<tr>
<td>Staff</td>
<td>22</td>
</tr>
<tr>
<td>Faculty Information</td>
<td>24</td>
</tr>
<tr>
<td>Enrolment Procedures</td>
<td>24</td>
</tr>
<tr>
<td>Rules for Progression</td>
<td>24</td>
</tr>
<tr>
<td>Library Facilities</td>
<td>24</td>
</tr>
<tr>
<td>Faculty Laboratories</td>
<td>25</td>
</tr>
<tr>
<td>Student Clubs and Societies</td>
<td>26</td>
</tr>
<tr>
<td>Financial Assistance to Students</td>
<td>26</td>
</tr>
<tr>
<td>Scholarships</td>
<td>26</td>
</tr>
<tr>
<td>Undergraduate</td>
<td>26</td>
</tr>
<tr>
<td>Graduate</td>
<td>27</td>
</tr>
<tr>
<td>Prizes</td>
<td>31</td>
</tr>
<tr>
<td>Undergraduate</td>
<td>31</td>
</tr>
<tr>
<td>Graduate</td>
<td>32</td>
</tr>
<tr>
<td>Undergraduate Study</td>
<td>33</td>
</tr>
<tr>
<td>School of Architecture</td>
<td>33</td>
</tr>
<tr>
<td>Section A</td>
<td>33</td>
</tr>
<tr>
<td>Revised Bachelor of Science (Architecture) and Bachelor of Architecture Degree Courses</td>
<td>33</td>
</tr>
<tr>
<td>Architectural Design — General</td>
<td>36</td>
</tr>
<tr>
<td>Architectural Design — Specific</td>
<td>36</td>
</tr>
<tr>
<td>Architectural Environment</td>
<td>37</td>
</tr>
<tr>
<td>Technology</td>
<td>38</td>
</tr>
<tr>
<td>Practice</td>
<td>38</td>
</tr>
<tr>
<td>Communication</td>
<td>39</td>
</tr>
<tr>
<td>Other Required Studies</td>
<td>39</td>
</tr>
<tr>
<td>Other Elective Studies</td>
<td>39</td>
</tr>
<tr>
<td>Section B</td>
<td>40</td>
</tr>
<tr>
<td>Bachelor of Science (Architecture) Course</td>
<td>40</td>
</tr>
<tr>
<td>Bachelor of Architecture Course</td>
<td>40</td>
</tr>
<tr>
<td>Degree Course in Landscape Architecture</td>
<td>43</td>
</tr>
<tr>
<td>School of Building</td>
<td>45</td>
</tr>
<tr>
<td>Construction Studies Stream</td>
<td>46</td>
</tr>
<tr>
<td>Building Science Stream</td>
<td>46</td>
</tr>
<tr>
<td>Management Studies Stream</td>
<td>47</td>
</tr>
<tr>
<td>Building Economics Stream</td>
<td>47</td>
</tr>
<tr>
<td>School of Town Planning</td>
<td>48</td>
</tr>
<tr>
<td>Extension Courses</td>
<td>49</td>
</tr>
<tr>
<td>Graduate Study</td>
<td>50</td>
</tr>
<tr>
<td>Graduate Enrolment Procedures</td>
<td>50</td>
</tr>
<tr>
<td>Higher Degrees — Research</td>
<td>50</td>
</tr>
<tr>
<td>Graduate Courses</td>
<td>51</td>
</tr>
<tr>
<td>School of Architecture</td>
<td>51</td>
</tr>
<tr>
<td>School of Building</td>
<td>52</td>
</tr>
<tr>
<td>School of Town Planning</td>
<td>54</td>
</tr>
<tr>
<td>Conditions for the Award of Higher Degrees</td>
<td>55</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>57</td>
</tr>
<tr>
<td>Master of Architecture</td>
<td>60</td>
</tr>
<tr>
<td>Master of Building</td>
<td>61</td>
</tr>
<tr>
<td>Master of Landscape Architecture</td>
<td>62</td>
</tr>
<tr>
<td>Master of Science (Acoustics)</td>
<td>63</td>
</tr>
<tr>
<td>Master of Science (Building Services)</td>
<td>64</td>
</tr>
<tr>
<td>Master of Science (Building)</td>
<td>65</td>
</tr>
<tr>
<td>Master of Town Planning</td>
<td>66</td>
</tr>
<tr>
<td>Graduate Diplomas</td>
<td>67</td>
</tr>
</tbody>
</table>
### Subject Descriptions

<table>
<thead>
<tr>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identification of Subjects by Numbers</td>
<td>68</td>
</tr>
<tr>
<td>School of Physics</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Study</td>
<td></td>
</tr>
<tr>
<td>Graduate Study</td>
<td></td>
</tr>
<tr>
<td>School of Mechanical and Industrial Engineering</td>
<td></td>
</tr>
<tr>
<td>Graduate Study</td>
<td></td>
</tr>
<tr>
<td>School of Civil Engineering</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Study</td>
<td></td>
</tr>
<tr>
<td>School of Architecture</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Study</td>
<td></td>
</tr>
<tr>
<td><strong>Section A</strong></td>
<td></td>
</tr>
<tr>
<td>Architectural Design — General</td>
<td>71</td>
</tr>
<tr>
<td>Architectural Design — Specific</td>
<td>72</td>
</tr>
<tr>
<td>Architectural Environment</td>
<td>74</td>
</tr>
<tr>
<td>Technology</td>
<td>76</td>
</tr>
<tr>
<td>Practice</td>
<td>78</td>
</tr>
<tr>
<td>Communication</td>
<td>80</td>
</tr>
<tr>
<td>Other Required Studies</td>
<td>81</td>
</tr>
<tr>
<td>Other Elective Studies</td>
<td>81</td>
</tr>
<tr>
<td><strong>Section B</strong></td>
<td></td>
</tr>
<tr>
<td>Design</td>
<td>81</td>
</tr>
<tr>
<td>History of Architecture</td>
<td>83</td>
</tr>
<tr>
<td>Graphic Communication</td>
<td>84</td>
</tr>
<tr>
<td>Construction</td>
<td>85</td>
</tr>
<tr>
<td>Structures</td>
<td>86</td>
</tr>
<tr>
<td>Architectural Science</td>
<td>87</td>
</tr>
<tr>
<td>Management</td>
<td>88</td>
</tr>
<tr>
<td>Landscape</td>
<td>89</td>
</tr>
<tr>
<td>Theses</td>
<td>89</td>
</tr>
<tr>
<td>Graduate Study</td>
<td></td>
</tr>
<tr>
<td>School of Accountancy</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Study</td>
<td></td>
</tr>
<tr>
<td>Department of Industrial Relations</td>
<td></td>
</tr>
<tr>
<td>School of Transport and Highways</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Study</td>
<td></td>
</tr>
<tr>
<td>School of Geography</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Study</td>
<td></td>
</tr>
<tr>
<td>School of Surveying</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Study</td>
<td></td>
</tr>
<tr>
<td>School of Building</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Study</td>
<td></td>
</tr>
<tr>
<td>Construction Studies Stream</td>
<td>92</td>
</tr>
<tr>
<td>Building Science Stream</td>
<td>94</td>
</tr>
<tr>
<td>Management Studies Stream</td>
<td>95</td>
</tr>
<tr>
<td>Building Economics Stream</td>
<td>96</td>
</tr>
<tr>
<td>Special Requirements</td>
<td>97</td>
</tr>
<tr>
<td>Other Subjects</td>
<td>97</td>
</tr>
<tr>
<td>Graduate Study</td>
<td></td>
</tr>
<tr>
<td>School of Town Planning</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Study</td>
<td></td>
</tr>
<tr>
<td>Graduate Study</td>
<td></td>
</tr>
<tr>
<td>School of Botany</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Study</td>
<td></td>
</tr>
<tr>
<td>Graduate Study</td>
<td></td>
</tr>
<tr>
<td>School of Sociology</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Study</td>
<td></td>
</tr>
</tbody>
</table>

---

### Contents

- **Subject Descriptions**
- Identification of Subjects by Numbers
- School of Physics
- Undergraduate Study
- Graduate Study
- School of Mechanical and Industrial Engineering
- Graduate Study
- School of Civil Engineering
- Undergraduate Study
- School of Architecture
- Undergraduate Study

**Section A**

- Architectural Design — General
- Architectural Design — Specific
- Architectural Environment
- Technology
- Practice
- Communication
- Other Required Studies
- Other Elective Studies

**Section B**

- Design
- History of Architecture
- Graphic Communication
- Construction
- Structures
- Architectural Science
- Management
- Landscape
- Theses

**Graduate Study**

- School of Accountancy
- Undergraduate Study
- Department of Industrial Relations
- School of Transport and Highways
- Undergraduate Study
- School of Geography
- Undergraduate Study
- School of Surveying
- Undergraduate Study
- School of Building
- Undergraduate Study
- Construction Studies Stream
- Building Science Stream
- Management Studies Stream
- Building Economics Stream
- Special Requirements
- Other Subjects

**Graduate Study**

- School of Town Planning
- Undergraduate Study
- Graduate Study
- School of Botany
- Undergraduate Study
- Graduate Study
- School of Sociology
- Undergraduate Study
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. The General Information Section is intended to help you put the Faculty into perspective with the University as a whole, to introduce you to some of the services available to students and to note some of the most important rules and procedures.

For fuller details about the University and its activities you should consult the University Calendar.

Now, see the following pages for other general information which may be of value to you.

Some people who can help you

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

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

The Deputy Registrar (Student Services), Mr Peter O'Brien, and his Administrative Assistant, Mr Stephen Briand, are located on the first floor of the Chancellery. They will help students who need advice and who have problems and are not sure whom they should see. As well as dealing with general enquiries they are especially concerned with the problems of physically handicapped and disabled students and those in need of financial assistance. The latter students should see Mr Briand. Enquire at room 148E, phone 2482 (general enquiries) or 3164 (financial assistance).

The Assistant Registrar (Examinations and Student Records Section), Mr John Warr, is located on the ground floor of the Chancellery. Assistance can also be obtained from the Senior Administrative Officer, Mr Ross Woodham. For particular enquiries regarding the Student Records Unit, including illness and other matters affecting performance in examinations, academic statements, graduation ceremonies, prizes, release of examination results and variations to enrolment programs, contact Mr Jack Morrison, phone 3711. For information regarding examinations, including examination timetables and clash of examinations, contact Mr John Grigg, phone 2143.

The Assistant Registrar (Admissions and Higher Degrees Section), Mr Jack Hill, is located on the ground floor of the Chancellery. For particular enquiries regarding undergraduate courses phone Mr John Beauchamp on 3319. General enquiries should be directed to 3711.
The Adviser for Prospective Students, Mrs Fay Lindsay, is located on the ground floor of the Chancellery and is available for personal interview. For an appointment phone 3453.

The Assistant Registrar (Student Employment and Scholarships), Mr Jack Foley, is located on the ground floor of the Chancellery. Enquiries should be directed to 2086 (undergraduate scholarships), 2525 (graduate scholarships), and 3259 (employment).

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

The Student Health Unit is located in Hut E on College Road. The Director is Dr Max Napthali. For medical aid phone 2679 or 3275.

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

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

The Chaplaincy Centre is located in Hut F at the foot of Basser Steps. For spiritual aid phone Anglican—2684; Catholic—2379; Church of Christ—2683; The Uniting Church—2683; Seventh Day Adventist—2683; Jewish—3273; Baptist—398 4065.

The Students' Union is located on the second floor of Stage III of the University Union where the SU full-time President, Education Vice-President or Director of Overseas Students are available to discuss any problems you might have. In addition the SU offers a range of diverse services including legal advice (full-time solicitor available), clubs and societies services, second-hand bookshop (buy or sell), new records/tapes at discount, food shop (The Nuthouse), a professional nursery-kindergarten House at Pooh Corner, a typesetting service, electronic calculators (bulk purchasing), AUS insurance (including health), an information referral centre (the Infakt Bus), a bail fund and publications such as Tharunka, Orientation Magazine, Concessions Book and counter-course handbooks. For information about these phone 2929.

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Calendar of Dates

1978

Session 1
(14 weeks)

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Examinations begin</td>
<td>6 March to 14 May</td>
</tr>
<tr>
<td>Midyear Recess: 19 June to 23 July</td>
<td>15 May to 21 May</td>
</tr>
<tr>
<td>22 May to 18 June</td>
<td></td>
</tr>
<tr>
<td>Examinations end</td>
<td></td>
</tr>
<tr>
<td>24 July to 27 August</td>
<td></td>
</tr>
</tbody>
</table>
| Session 2
(14 weeks)                  |                            |
| Examinations begin           | 13 November                |
| Study Recess: 6 November to 12 November | 2 December       |
| Examinations end             |                            |

January

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Year's Day—Public Holiday</td>
<td></td>
</tr>
<tr>
<td>Last day for application for review of annual examinations</td>
<td>Monday 2</td>
</tr>
<tr>
<td>Publication of timetable for deferred examinations</td>
<td>Friday 6</td>
</tr>
<tr>
<td>Last day for acceptance of applications by Admissions Office for transfer to another course within the University</td>
<td>Monday 9</td>
</tr>
<tr>
<td>Australia Day—Public Holiday</td>
<td>Friday 13</td>
</tr>
<tr>
<td>Deferred examinations begin</td>
<td>Monday 30</td>
</tr>
<tr>
<td>Deferred examinations end</td>
<td>Tuesday 31</td>
</tr>
</tbody>
</table>

February

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deferred examinations end</td>
<td></td>
</tr>
<tr>
<td>Deferred examination results available</td>
<td>Saturday 4</td>
</tr>
<tr>
<td>Enrolment period begins for new students and students repeating first year</td>
<td>Monday 17</td>
</tr>
<tr>
<td>Last day for application for review of deferred examination results</td>
<td>Wednesday 20</td>
</tr>
<tr>
<td>Last day for students who have completed requirements for Pass degrees to advise the Registrar they are proceeding to an Honours degree or do not wish to take out their degree for any reason</td>
<td>Friday 22</td>
</tr>
<tr>
<td>Enrolment period begins for second and later year students</td>
<td>Monday 24</td>
</tr>
</tbody>
</table>

---
March

Monday 6
Tuesday 7
Friday 24 to
Monday 27
Friday 31

April

Tuesday 25
Friday 28

May

Thursday 11
Monday 15
Thursday 18
Friday 19
Sunday 21
Tuesday 30

June

Tuesday 6
Monday 12
Sunday 18
Monday 19
Friday 30

July

Monday 17
Tuesday 18
Wednesday 19
to Friday 21

August

Thursday 3
Friday 4
Friday 18
Monday 28

September

Sunday 3
Monday 11
Wednesday 13
Friday 15
Monday 18

October

Sunday 1
Monday 2
Thursday 5
Thursday 12
Tuesday 17
Tuesday 24

November

Sunday 5
Monday 6
Monday 13

Midyear Recess ends
Session 2 begins

List of graduands for April/May ceremonies published in daily press
Easter
Last day for students, other than those attending the University for the first time, to discontinue without failure subjects which extend over Session 1 only

Anzac Day—Public Holiday
Last day for students attending the University for the first time to discontinue without failure subjects which extend over Session 1 only Confirmation of Enrolment forms dispatched to all students

Last day for acceptance of corrected Confirmation of Enrolment forms
Last day for students completing requirements for degrees or diplomas at the end of Session 1 to submit Details Associated With Graduation form

Publication of provisional timetable for June/July examinations
Last day for students, other than those attending the University for the first time, to discontinue without failure subjects which extend over the whole academic year

May Recess ends

Last day for students to advise of examination timetable clashes

Publication of timetable for June/July examinations
Examinations begin
Examinations end

Examination results mailed to students
Examination results displayed on University notice boards

Students to amend enrolment programs following receipt of June examination results

Midyear Recess ends
Session 2 begins
Last day for students who have completed requirements for Pass degrees to advise the Registrar they are proceeding to an Honours degree or do not wish to take out their degree for any reason
Last day for application for review of June examination results

Foundation Day
Last day for students attending the University for the first time to discontinue without failure subjects which extend over the whole academic year
Last day for students, other than those attending University for the first time, to discontinue without failure subjects which extend over Session 2 only Confirmation of Enrolment form forwarded to all students

Last day to notify intention of attending October graduation ceremony

Last day to apply to MUAC for transfer to another University in New South Wales
Eight Hour Day—Public Holiday
Last day to return corrected Confirmation of Enrolment forms
Publication of provisional examination timetable
Graduation ceremonies
Last day for students to advise of examination timetable clashes
Publication of timetable for annual examinations

Examinations begin.
December
Friday 2
Tuesday 19
Wednesday 20
Monday 25
Tuesday 26
1979
Examinations end
Examination results mailed to students
Examination results displayed on University notice boards
Christmas Day—Public Holiday
Boxing Day—Public Holiday

1979

Session 1
18 June
Examinations begin
5 March to 13 May
May Recess: 14 May to 20 May
21 May to 17 June
Saturday
30 June
Examinations end
Midyear Recess: 18 June to 22 July
Session 2
23 July to 26 August
August Recess: 27 August to 2 September
3 September to 4 November
Study Recess: 5 November to 11 November
Monday
12 November
Examinations begin
Saturday
1 December
Examinations end

January
Monday 1
Public Holiday
Friday 5
Last date for application for review of results of annual examinations
Friday 12
Last day for acceptance of applications by Admissions Office for transfer to another course within the University
Monday 29
Australia Day—Public Holiday

February
Monday 19
Enrolment period begins

Organization of the University

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

In 1977 the University had 18,520 students and over 4,000 staff who worked in more than eighty buildings. These figures include staff and students at Broken Hill (W. S. and L. B. Robinson University College), Duntroon (the Faculty of Military Studies) and Jervis Bay.

The Council

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

The Council consists of 43 members from the State Parliament, industry and commerce, agriculture, the trade unions, professional bodies, the staff, the students and the graduates of the University.

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

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

The Professorial Board

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

The Faculties/Boards of Study

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

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

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

The Schools

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

Executive Officers

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

He is assisted in this task by three Pro-Vice-Chancellors, Professor John Thornton, Professor Rex Vowels and Professor Albert Willis; the Deans and the three heads of the administrative divisions.

General Administration

The administration of general matters within the University comes mainly within the province of the Registrar, Mr Keith Jennings, the Bursar, Mr Tom Daly, and the Business Manager (Property), Mr R. K. Fletcher.

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

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

Student Representation on Council and Faculties/Boards

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

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

Open Faculty/Board Meetings

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

Award of the University Medal

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

Identification of Subjects by Numbers

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

Textbook Lists

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

General Studies Program

Almost all undergraduates in Faculties other than Arts and Law are required to complete a General Studies program. The Department of General Studies within the Board of Studies in General Education publishes its own Handbook which is available free of charge. All enquiries about General Studies should be made to the General Studies Office, Room G56, Morven Brown Building, phone 3476.

Student Services and Activities

The University Library

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

There are also library services at other centres:

The Water Reference Library situated at Manly Vale (phone 948 0261) which is closely associated with the Physical Sciences Library.
Accommodation

Residential Colleges

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

The Kensington Colleges

The Kensington Colleges comprise Basser College, Goldstein College, and Philip Baxter College. They house 450 men and women students, as well as staff members. Fees are payable on a session basis. Apply in writing to the Master, PO Box 24, Kensington, NSW 2033.

International House

International House accommodates 154 students from Australia and up to twenty other countries. Preference is given to more senior undergraduates and graduate students. Apply in writing to the Warden, International House, PO Box 88, Kensington, NSW 2033.

New College

This Church of England College is open to all students without regard to race or religion. It has accommodation for approximately 220 students and is co-educational. Enquiries should be addressed to the Master, New College, Anzac Parade, Kensington, NSW 2033.

Shalom College

Shalom College provides accommodation for 86 men and women students. Non-resident membership is available to students who wish to avail themselves of the Kosher dining room and tutorial facilities. Apply in writing to the Master, Shalom College, The University of New South Wales, PO Box 1, Kensington, NSW 2033.

Warrane College

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

Creston Residence

Creston, associated with Warrane College, offers residence for 25 full-time undergraduate and graduate women students of all nationalities and denominations. It is directed by the Women's Section of Opus Dei, a Catholic lay association. Further information: The Principal, 36 High Street, Randwick, NSW 2031.

Other Accommodation

Off-campus Accommodation

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

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

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

Location: The Student Accommodation Service is located in Hut B, near the foot of Basser Steps. Phone 663 0351, extension 3260.

Student Employment and Scholarships

The Student Employment and Scholarships Unit offers assistance with career employment for final year students and graduates of the University. This service includes the mailing of regular job vacancy notices to registered students, and a Careers Library containing information on various careers and employers.
Careers advice and assistance are also available to undergraduates. Students undertaking courses in Applied Science or Engineering which require course-related industrial or professional training experience are assisted to find such employment over the long vacation. Information and advice regarding cadetships, undergraduate and graduate scholarships is also available.

The service is located in Room G19 of the Chancellery.

Phone extension 3259 for employment and careers advice, extension 2525 for details of graduate awards and grants, and extension 2086 for undergraduate scholarship, cadetship and industrial training information.

**Student Health**

A student health clinic and first aid centre is situated within the University. It is staffed by three qualified medical practitioners, assisted by two nursing sisters. The medical service, although therapeutic, is not intended to entirely replace private or community health services. Thus, where chronic or continuing conditions are revealed or suspected, the student may be referred to a private practitioner or to an appropriate hospital for specialist opinion and/or treatment. The health service is not responsible for fees incurred in these instances. The service is confidential and students are encouraged to attend for advice on matters pertaining to health.

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

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

Appointments may be made by calling at the centre or by telephoning extension 2679 or 3275 during the above hours.

The Family Planning Association of NSW conducts clinics at the Student Health Unit and at the adjacent Prince of Wales Hospital. These clinics are open to staff and students and appointments may be made for the Student Health Unit clinic by telephoning 698 9499, or for The Prince of Wales Hospital clinics by telephoning 399 0111.

**Student Counselling and Research**

The Student Counselling and Research Unit provides individual and group counselling for all students—prospective, established and graduate. Self-help programs are also available. Opportunities are provided for parents and others concerned with student progress to see members of the counselling staff.

The service which is free, informal and personal is designed to help students with planning and decision making, and a wide variety of concerns and worries which may be affecting personal, educational and vocational aspects of their lives.

The Unit pursues research into factors affecting student performance, and the published results of its research and experience are helpful in improving University and other counselling services, and the quality of student life.

Counselling appointments may be arranged during sessions and recesses between 9 am and 7 pm. Phone 663 0351, extension 3681, 3685 and 2696, or call at the Unit which is located at the foot of Basser Steps. Urgent interviews are possible on a walk-in basis between 9 am and 5 pm. Group counselling programs are offered both day and evening between 9 am and 9 pm by special arrangement. Self-help programs are arranged to suit the student's time and convenience.

**Student Amenities and Recreation**

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

The Unit provides, for example, a recreational program for students and staff at the Physical Education and Recreation Centre; negotiates with the Public Transport Commission of NSW on student travel concessions and supplies concession forms for bus, rail, ferries and planes; assists students with off-campus housing; makes bookings for use of sports facilities; and, in consultation with the Sports Association, assists various recognized clubs.

The Unit is located in Hut B at the foot of Basser Steps. The various services may be contacted by phone on the following extensions: Recreation Program 3271; Travel 2617; Accommodation 3260; Ground Bookings 2235; Sports Association 2673.

**Physical Education and Recreation Centre**

The Student Amenities and Recreation Unit provides a recreational program for students and staff at the Physical Education and Recreation Centre. The Centre consists of eight squash courts and a main building, the latter containing a large gymnasium and practice rooms for fencing, table tennis, judo, weight-lifting, karate and jazz ballet, also a physical fitness testing room. The recreational program includes intramurals, teaching/coaching, camping, and fitness testing. The Centre is located on the lower campus adjacent to High Street. The Supervisor at PERC may be contacted on extension 3271.
The Sports Association

The Sports Association caters for a variety of competitive sports for both men and women. Membership is compulsory at $6 per year for all registered students and is open to all members of staff and graduates of the University.

The Sports Association office is situated in Hut G, near the bottom of Basser Steps, and the control of the Sports Association is vested in the General Committee. The Executive Officer of the Sports Association may be contacted on extension 2673.

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

Student Travel Concessions

The Student Amenities and Recreation Unit arranges distribution of bus, rail and ferry concessions. For the peak period during the week preceding and the first week of Session 1 distribution is at a location to be decided. Students should watch for notices around the campus announcing the distribution centre.

For the rest of the year students seeking authorization for travel concessions, including planes, should enquire at SARU, Hut B, (extension 2617) or the Enquiry Desk, Chancellery, (extension 2251).

The University Union

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

The Union is housed in three buildings near the entrance to the Kensington Campus from Anzac Parade. These are the Roundhouse, The Blockhouse (Stage 2) and the Squarehouse (Stage 3). Membership of the Union is compulsory at $45 per year for all registered students and is open to all members of staff and graduates of the University.

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

Full information concerning courses is contained in a booklet obtainable from the Union's Program Department.

The University Union should not be confused with the Students' Union or Students' Representative Council (as it is known in some other universities). This latter body has a representative function and is the instrument whereby student attitudes and opinions are crystallized and presented to the University and the community.

The Students' Union

The Students' Union is run by students and represents them on and off campus. Presidential elections are by popular vote and all students who have completed two years at the University are eligible for election.

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

Other full-time officers include the Education Vice-President who works towards the implementation of Student Union education policy and in assisting students with problems they may encounter in the University; Director of Overseas Students who deals with specific problems these students may encounter while in Australia.

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

Membership is compulsory at $14 per annum for full-time students and $11 for part-time students.

The activities of the Students' Union include:

1. Infakt: a student-run information referral service. If you want someone to talk to or need help of any kind see the people at Infakt located in the bus at the foot of Basser Steps.
2. A casual employment service.
3. Organization of Orientation Week.
4. Organization of Foundation Day.
6. Publication of the student paper Tharunka.
7. A free legal service run by a qualified lawyer employed by the Students' Union Council.
8. Students' Union Record Shop which sells discount records and tapes.
9. The Nuthouse which deals in bulk and health foods.
10. Secondhand Bookshop for cheap texts.
11. Clubs and societies which receive money from the Students' Union through CASOC (Clubs and Societies on Campus).
12. The sale of electronic calculators and accessories at discount rates.
The Students' Union is affiliated with the Australian Union of Students (AUS) which represents students on the national level.

The Students' Union is located on the second floor, Stage 3, the Union.

Chaplaincy Centre

This service is provided for the benefit of students and staff of various religious and spiritual beliefs. Chaplains are in attendance at the University at regular times. A Chapel is also available for use by all denominations. For further details, turn to page 2.

Other Services and Activities

CASOC All clubs and societies on campus (except sporting clubs) are loosely organized under the umbrella of CASOC, which is a committee of the Students' Union. Some of these clubs are: the Motor Cycle Club; Chess Club; Dramsoc; Opunka; Kite Club and the Jazz Society.

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

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

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

Australian Armed Forces Enquiries should be directed to: Royal Australian Navy: Royal Australian Navy Liaison Officer, Professor J. S. Ratcliffe, Commander, RANR, at the School of Chemical Engineering. Phone extension 2406. University of New South Wales Regiment: The Adjutant, Regimental Depot, Day Avenue (just west of Anzac Parade). Phone 663 1212. Royal Australian Air Force: Undergraduates interested in the RAAF Undergraduate Scheme should contact The Recruiting Officer, Defence Forces Recruiting Centre, 323 Castlereagh Street, Sydney. Phone 212 1011.

Benefits (as at 30 June 1977)

Means-tested Living Allowance The maximum rates of living allowances are $1,250 per annum for students living at home and $1,976 per annum for students living away from home. The maximum rate for independent students is $2,236 per annum. The maximum rates of living allowance will be paid where the adjusted family income is equal to or less than $8,200 per annum. The adjusted family income is assessed by subtracting from the gross income of both parents their business expenses and an amount of $450 for each dependent child other than the student.

When the adjusted family income exceeds $8,200 pa the amount of living allowance will be reduced by $2.50 for every $10 of income.

A concession may be made where there are other children in the family undertaking tertiary education with scholarship assistance from schemes other than the Tertiary Education Assistance Scheme of less than $150 pa.

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

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

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

Dependants' Allowance This is made up of allowances of $29 per week for a dependent spouse and $7.50 per week for each child.
How to Apply 1977 Higher School Certificate candidates and tertiary students receiving an allowance were sent forms last October. Other students may obtain forms from the Admissions Section or the Student Employment and Scholarships Unit, or from the Regional Director, Department of Education, 323 Castlereagh Street, Sydney, NSW 2000 (phone 218 8800). The administrative closing date for 1978 applications is 31 October 1977.

Scholarships, Cadetships, Prizes

1. Undergraduate Scholarships In addition to finance provided under the Commonwealth Government's Tertiary Education Assistance Scheme there are a number of scholarships, cadetships, prizes and other forms of assistance available to undergraduate students. Details of procedures for application for these awards are contained in the Calendar.

There are also special scholarships not administered by the University, information about which may be obtained from the School office.

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

2. Graduate Awards An honours degree is generally an essential requirement for gaining one of the many graduate scholarships which are available at the University. Therefore gifted students should not neglect the opportunity to qualify for honours and thus become eligible for an award.

Details of graduate awards are contained in the University Calendar.

Other Financial Assistance

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

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

2. Short Term Cash Loans Donations from the Students' Union, the University Union and other sources have made funds available for urgent cash loans not exceeding $100. These loans are normally repayable within one month.

3. Early in 1973 the Commonwealth Government made funds available to the University to provide loans to students in financial difficulty. The loans are to provide for living allowances and other approved expenses associated with attendance at University. Repayment usually commences after graduation or upon withdrawal from the course. Students are required to enter into a formal agreement with the University to repay the loan.

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

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

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

Financial Assistance to Aboriginal Students

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

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

Fund for Physically Handicapped and Disabled Students

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

Rules and Procedures

The University, in common with other large organizations, has some agreed ways of doing things in order to operate for the benefit of all members. The rules and procedures listed below will affect you at some time or another. In some cases there are penalties (e.g. fines or exclusion from examinations) for failure to observe these procedures and therefore they should be read with care.
Admission

Where can I get information about admission?

The Admissions Office, located in the Chancellery on the upper campus, provides information for students on admission requirements, undergraduate and graduate courses and enrolment procedures. The Admissions Office is open from 9 am to 5 pm Monday to Friday (excluding the lunch hour 1 pm to 2 pm). During enrolment the office is also open for some part of the evening.

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

Applications for admission to undergraduate courses from students who do not satisfy the requirements for admission (see section on Requirements for Admission), from students seeking admission with advanced standing, and from students who have a record of failure at another university, are referred by the Admissions Office to the Admissions Committee of the Professorial Board.

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

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

How do I qualify for admission?

In order to enter an undergraduate course you must qualify for matriculation to the University, and be selected for admission to the faculty or course you wish to enter. Full details of matriculation and admission requirements are contained in a pamphlet obtainable at the Admissions Office and in the Calendar.

Enrolment

How do I enrol?

All students, except those enrolling in graduate research degrees (see below), must lodge an authorized enrolment form with the Cashier on the day the enrolling officer signs the form or on the day their General Studies electives are approved if their course requires this.

All students, except those enrolling in graduate research degrees and those exempted (see below), should on that day also either pay the required fees or lodge an enrolment voucher or other appropriate authority.

What happens if I am unable to pay fees at the time of enrolment?

If you are unable to pay fees by the due date you may apply in writing to the Deputy Registrar (Student Services) for an extension of time which may be granted in extenuating circumstances.

If a student is unable to pay the fees the enrolment form must still be lodged with the Cashier and the student will be issued with a 'nil' receipt. The student is then indebted to the University and must pay the fees by the end of the second week of the session for which enrolment is being effected. Penalties apply if fees are paid after that time (see Fees below). Payment may be made through the mail in which case it is important that the student registration number be given accurately.

New Undergraduate Enrolments

Persons who are applying for entry in 1978 must lodge an application for selection with the Metropolitan Universities Admissions Centre, PO Box 7049, GPO, Sydney 2001, by 1 October 1977.

Those who are selected will be required to complete enrolment at a specified appointment time before the start of Session 1. Compulsory fees must be paid on the day of the appointment. In special circumstances, however, and provided class places are still available, students may be allowed to complete enrolment after the prescribed week, subject to the payment of a penalty (see page 15).

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

Re-enrolment

Students who are continuing courses (or returning after approved leave of absence) should enrol through the appropriate School in accordance with the procedures set out in the current Enrolment Procedures booklet, available from the Admissions Office and from School offices. Those who have completed part of a course and have been absent without leave need to apply for entry through the Metropolitan Universities Admissions Centre, PO Box 7049, GPO, Sydney 2001, by 1 October 1977.

Restrictions Upon Re-enrolling

Students enrolled for the first time in any undergraduate course in the University who failed more than half their program in
1977; students who have failed more than once a subject prescribed as part of their course; and students required by the Re-enrolment Committee to show cause should not attempt to re-enrol but should follow the written instructions they will receive from the Registrar.

For the purpose of calculating a student's program, all subjects taken during the year, including repeat subjects, are counted.

### New Research Students

Students enrolling for the first time in graduate research degrees will receive an enrolment form by post. They have two weeks from the date of offer of registration in which to lodge the enrolment form with the Cashier and pay the appropriate fees. Completion of enrolment after this time will incur a penalty (see page 15).

### Re-enrolling Research Students

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

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

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

### Miscellaneous Subject Enrolments

Students may be permitted to enrol for miscellaneous subjects (ie as students not proceeding to a degree or diploma) provided the Head of the School offering the subject considers it will be of benefit and there is accommodation available. Only in exceptional cases will subjects taken in this way count towards a degree or diploma. Students who are under exclusion may not be enrolled in miscellaneous subjects which may be counted towards courses from which they have been excluded.

Students seeking to enrol in miscellaneous subjects should obtain a letter of approval from the Head of the appropriate School or his representative permitting them to enrol in the subject concerned. The letter should be given to the enrolling officer at the time of enrolment.

For details of the locations and hours for enrolment see Enrolment Procedures 1978, a free booklet obtainable from your School or Faculty Office or from the Admissions Office.

### Final Dates for Completion of Enrolments

No enrolments for courses extending over the whole year or for Session 1 only will be accepted from new students after the end of the second week of Session 1 (17 March 1978) except with the express approval of the Deputy Registrar (Student Services) and the Heads of the Schools concerned; no later year enrolments for courses extending over the whole year or for Session 1 only will be accepted after the end of the fourth week of Session 1 (31 March 1978) except with the express approval of the Deputy Registrar (Student Services) and the Heads of Schools concerned. No enrolments for courses in Session 2 only will be accepted after the end of the second week of Session 2 (4 August 1978) except with the express approval of the Deputy Registrar (Student Services) and the Heads of Schools concerned.

### How do assisted students (eg scholarship holders) enrol?

Scholarship holders or sponsored students who have an enrolment voucher or letter of authority from their sponsor should present it at the time of enrolment. Such vouchers and authorities are generally issued by the NSW Department of Education and the NSW Public Service. They are not always issued in time and students who expect to receive an enrolment voucher or other appropriate authority but have not done so must pay the fees (and arrange a refund later). Such 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.

### What special rules apply if I wish to be considered for admission with advanced standing?

If you make application to register as a candidate for any degree or other award granted by the University you may be admitted to the course of study with such standing on the basis of previous attainments as may be determined by the Professorial Board. For complete details regarding 'Admission with Advanced Standing' consult the University Calendar.

### Can I transfer from one course to another?

To transfer from one course to another you must apply on an application form obtainable from the Admissions Office by 13 January. If your application is successful you are required to comply with the enrolment procedures for the year/stage of the new course and, unless otherwise instructed, you should present the letter granting transfer to the enrolling officer. If you intend to transfer, you should also inform the enrolling officer of the school in which you were enrolled in 1977.
Can I change my course program?

If you wish to seek approval to substitute one subject for another, or add one or more subjects to your program or discontinue part or all of your program, you must make application to the Registrar through the Head of the School responsible for the course on forms available from School offices or at the Enquiry Desk in the main entrance of the Chancellery. The Registrar will inform you of the decision. Application to enrol in additional subjects must be submitted by the end of the fourth week of Session 1.

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

Withdrawal from subjects

Courses

1. Students withdrawing from courses (see also Subjects, below) are required to notify the Registrar in writing.

For details see the Calendar.

Subjects

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

First Year Students (i.e., enrolled for the first time in any undergraduate course at the University)

1. one-session subjects: the end of the eighth week of that session (28 April or 15 September).
2. double-session subjects: the end of the second week of Session 2 (4 August).

Other Students

1. one-session subjects: the end of the fourth week of that session (31 March or 8 August);
2. double-session subjects: the end of the eleventh week from the start of Session 1 (19 May).

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

If you have had a leave of absence for twelve months and wish to resume your course you should follow the instructions about re-enroling given in the letter granting your leave of absence. If you do not fully understand or have lost these instructions, then you should contact the Admissions Office before October in the year preceding the one in which you wish to resume your course.

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

Are there any restrictions upon students re-enrolling?

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

First-year Rule

1. A student enrolled for the first time in any undergraduate course in the University shall be required to show cause why he/she should be allowed to continue the course if that student fails more than half the program in which he/she is enrolled. In order that students may calculate half their program, the weighting of subjects in each course is defined in Schedule A, which may be varied from time to time by the Professorial Board.

Repeated-failure Rule

2. A student shall be required to show cause why he/she should be allowed to repeat a subject which that student has failed more than once. Where the subject is prescribed as part of the student's course he/she shall also be required to show cause why he/she should be allowed to continue that course. Failure in a deferred examination as well as in the initial examination counts for the purposes of this rule as one failure.

General Rule

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

The Session-unit System

4. (1) A student who infringes the provisions of Rules 1. or 2. at the end of Session 1 of any year will not be required to show cause at that time but will be allowed to repeat the subject(s) (if offered) and/or continue the course in Session 2 of that year, subject to the rules of progression in that course.

(2) Such a student will be required to show cause at the end of the year, except that a student who has infringed Rule 2. at the end of Session 1, repeats the subject(s) in question in Session 2, and passes it/them, will not be required to show cause on account of any such subject.

*For details of Schedule A, see Restrictions upon Students Re-enrolling in the University Calendar.
Exemption from Rules by Faculties

5. (1) A faculty or board of studies examination committee may, in special circumstances, exempt a student from some or all of the provisions of Rules 1. and 2.

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

‘Showing Cause’

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

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

Appeal

7. (1) Any student who is excluded by the Re-enrolment Committee from a course and/or subject(s) under the provisions of the Rules may appeal to an Appeal Committee constituted by Council for this purpose with the following membership:

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

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

(2) The notification to any student of a decision by the Re-enrolment Committee to exclude him/her from re-enrolling in a course and/or subject(s) shall indicate that the student may appeal against that decision to the Appeal Committee. In lodging such an appeal with the Registrar the student should provide a complete statement of all grounds on which the appeal is based.

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

Exclusion

8. (1) A student who is required to show cause under the provisions of Rules 1. or 3. and either does not attempt to show cause or does not receive special permission to re-enrol from the Re-enrolment Committee (or the Appeal Committee on appeal) shall be excluded from re-enrolling in the subject(s) and course(s) on account of which he was required to show cause. Where the subjects failed are prescribed as part of any other course (or courses) he/she shall not be allowed to enrol in any such course.

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

(3) A student excluded from a course or courses under the provisions of (1) or (2) may not enrol as a miscellaneous student in subjects which may be counted towards any such course.

Re-admission after Exclusion

9. (1) An excluded student 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 Metropolitan Universities Admission Centre before the closing date for normal applications in the year prior to which re-admission is sought. Such applications will be considered by the Admissions Committee of the relevant Faculty or Board.

(b) An application for re-admission to a subject should be made to the Registrar before 30 November in the year prior to which re-admission is sought. Such applications will be considered by the relevant Head of School.

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

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

10. If students fail a subject at the examinations in any year or session and re-enrol in the same course in the following year or session they must include in their program 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.

How do I apply for admission to degree or diploma?

If your current program will enable you to complete all requirements for a degree or diploma, including industrial training where necessary, you should complete the form Submission of Details Associated with Graduation for not immediately repeating the failed training where necessary, you should complete the form for admission to degree or diploma?

The completion and submission of the form ensures that:

1. the correct spelling and sequence of names is recorded on the degree certificate;
2. any previous academic qualifications are shown in the graduation ceremony program;
3. all correspondence relating to the ceremony is forwarded to the correct address.

Note: If notifying change of address after the form has been submitted an additional form Final Year Students' Graduation: Change of Address Advice should be submitted.

If you meet all the requirements, the degree or diploma will be conferred without the necessity for further action by you. Students should advise the Registrar, in writing, if they do not wish to have the degree or diploma conferred for any reason, including the decision to proceed to an honours degree. This advice should reach the Registrar no later than 24 July for students completing at the end of Session 1, and 24 February for those completing at the end of Session 2 to ensure that the degree is not conferred.

Fees*

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

Do I have to pay fees for tuition?

No tuition fees are charged.

What other fees and charges are payable?

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

How much is my contribution to student activities and services on campus?

All students (with the exceptions noted below) will be required to pay the following fees if enrolling for a program involving two sessions. Those enrolling for only one session will pay one-half of the Student Activities Fees, and the full University union entrance fee, if applicable.

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

Student Activities Fees

University Union, $45 annual subscription
Sport Association, $6 annual subscription
Students' Union:
Students enrolling in full-time courses, $14 annual subscription
Students enrolling in part-time courses and miscellaneous subjects, $11 annual subscription
Miscellaneous, $25 annual fee.

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

Are fees charged for examinations?

Generally there are no charges associated with examinations; however, two special examination fees are applied:

Examinations conducted under special circumstances—for each subject $11
Review of examination result—for each subject $11

What penalties exist for late payment of fees?

The following additional charges will be made in 1977 when fees are paid late:

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.

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

Cashier’s Offices are open during the enrolment periods. Details of locations and hours are listed in Enrolment Procedures 1978, a free booklet obtainable from your School or Faculty Office or from the Admissions Office.

Who is exempt from payment of fees?

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

2. Students enrolled in courses classified as External are exempt from all Student Activities Fees and the University Union entrance fee.

3. University Union fees and subscriptions may be waived by the Deputy Registrar (Student Services) for students enrolled in graduate courses in which the academic requirements require no attendance on the Kensington campus.

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

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

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

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

8. All Student Activities Fees, for one or more sessions may be waived by the Deputy Registrar (Student Services) for graduate students who are given formal permission to pursue their studies away from the Kensington campus for one or more sessions.

Is exemption from membership possible?

The Registrar is empowered to grant exemption from membership of the Students’ Union and the Sports Association to students who have a genuine religious objection to such membership, subject to payment of the prescribed fees to the University.

How much will textbooks and special equipment (if any) cost?

You must 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 second-hand bookshop. Information about special equipment costs, accommodation charges and cost of subsistence on excursions, field work, etc, and for hospital residence (medical students) are available from individual schools.

Will I receive any refund if I withdraw from a course?

Yes. The following rules apply:

1. If you withdraw from courses you are required to notify the Registrar in writing.

2. Where notice of withdrawal from a course is received by the Registrar before the first day of Session 1 a refund of all fees paid will be made. After that time only a partial refund will be made. See the Calendar for details.

What happens if I fail to pay the prescribed fees or charges?

If you fail to pay prescribed fees or charges or become otherwise indebted to the University and you fail to make a satisfactory settlement of your indebtedness upon receipt of due notice then you cease to be entitled to the use of University facilities. You will not be permitted to register for a further session, to attend classes or examinations, or be granted any official credentials. In the case of a student enrolled for Session 1 only or for Sessions 1 and 2 this disbarment applies if any portion of fees is outstanding after the end of the eighth week of Session 1 (28 April 1978). In the case of a student enrolled for Session 2 only, this disbarment applies if any portion of fees is outstanding after the end of the sixth week of Session 2 (1 September 1978).

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

Can I get an extension of time to pay?

If you apply before the due date and extenuating circumstances exist, an extension of time may be granted. Apply to the Deputy Registrar (Student Services).

Examinations

When are examinations held?

Examinations for Session 2 and for Full Year subjects are held in November/December. Examinations for Session 1 subjects
Misreading of the timetable is not an acceptable excuse for failure to attend an examination.

In the assessment of your progress in University courses, consideration 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.

**How are examination passes graded?**

Passes are graded: High Distinction, Distinction, Credit and Pass. Satisfactory indicates the satisfactory completion of a subject for which graded passes are not available. A Pass Conceded may be granted to a student whose mark in a subject is slightly below the standard required for a pass but whose overall satisfactory performance warrants this concession.

A Terminating Pass may be granted where the mark for the subject is below the required standard. A terminating pass will not permit a student to progress further in the subject or to enrol in any other subject for which a pass in the subject is a co-requisite or prerequisite. A student given a terminating pass may attempt a deferred examination, if available, to improve his performance but should he fail in such attempt, the terminating pass shall stand.

**When are examination results available?**

Final examination results will be posted to your term address (which can be altered up to 30 November) or to your vacation address (fill in a form obtainable at the Information Desk, Chancellery, also by 30 November). Results are also posted on School notice boards and in the foyer of the Sir John Clancy Auditorium. No examination results are given by telephone.

**Can examinations results be reviewed?**

Examination results may be reviewed for a fee of $11 a subject, which is refundable in the event of an error being discovered. This review consists mainly of ensuring that all questions attempted have been marked and of checking the total of the marks awarded. Applications for review must be submitted on the appropriate form to the Examinations and Student Records Section together with the necessary fee by the dates printed on the reverse side of Notification of Results.

**Are allowances made if students are sick before or during an examination?**

A student who through serious illness or other cause outside his control is unable to attend an examination is required to bring the circumstances (supported by a medical certificate or other evidence) to the notice of the Registrar not later than seven days after the date of the examination.

A student who believes that his performance in a subject has been affected by serious illness during the year or by other cause outside his control, and who desires these circumstances to be taken into consideration in determining his standing, is required to bring the circumstances (supported by a medical certificate or other evidence) to the notice of the Registrar as soon as the circumstances are known but not later than seven days after the date of the examination.

A student who attempts an examination, yet claims that his performance is prejudiced by sickness on the day of the examination must notify the Registrar or Examination Supervisor before, during, or immediately after the examination, and may be required to submit to medical examination.

When submitting a request for consideration candidates are required to give details of their registration number, address, course, specialization, year or stage, full or part-time and subject number, title and date of the examination affected.

A student suffering from a physical disability which puts him at a disadvantage in written examinations should apply to the Assistant Registrar, Examinations and Student Records Section (Ground Floor, the Chancellery) immediately the disability is known. If necessary, special arrangements will be made to meet the student’s requirements.

**Use of electronic calculators**

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

**Compulsory Industrial Training**

Examinations including deferred examinations will not be permitted away from the campus unless the candidate is engaged on compulsory industrial training. Candidates must advise the Officer-in-Charge, Examinations Unit, immediately the location of the industrial training is known. Special forms for this purpose are available at the Enquiry Desk, the Chancellery.

**Arrival at Examinations**

Examination Rooms will be open to students 25 minutes before the commencement of the examination. Candidates are requested to be in their places at least 15 minutes before the
Use of Translation Dictionaries

All answers must be in English unless otherwise directed. Foreign students who have the written approval of the Assistant Registrar, Examinations and Student Records Section, may use standard translation dictionaries. Dictionaries should be presented for approval, not later than 14 days before the commencement of the examination period.

How are examinations conducted?

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

1. Candidates are required to obey any instruction given by an examination supervisor for the proper conduct of the examination.
2. Candidates are required to be in their places in the examination room not less than 10 minutes before the time for commencement.
3. No bag, writing paper, blotting paper, manuscript or book, other than a specified aid, is to be brought into the examination room.
4. No candidate shall be admitted to an examination after 30 minutes from the time of commencement of the examination.
5. No candidate shall be permitted to leave the examination room before the expiry of 30 minutes from the time the examination commences.
6. No candidate shall be re-admitted to the examination room after he has left it unless during the full period of his absence he has been under approved supervision.
7. A candidate shall not by any improper means obtain, or endeavour to obtain, assistance in his work, give, or endeavour to give, assistance to any other candidate, or commit any breach of good order.
8. Smoking is not permitted during the course of examinations.
9. A candidate who commits any infringement of the rules governing examinations is liable to disqualification at the particular examination, to immediate expulsion from the examination room, and to such further penalty as may be determined in accordance with the By-laws.

Under what circumstances are deferred examinations granted?

Deferred examinations may be granted in the following cases:

1. When a student through illness or some other acceptable circumstance has been prevented from taking the annual examination or has been placed at a serious disadvantage during the annual examinations.
2. To help resolve a doubt as to whether a student has reached the required standard in a subject.
3. To allow a student by further study to reach the required standard in a subject.
4. Where a student's progression or graduation is inhibited by his failure in one subject only, a deferred examination may be granted notwithstanding his failure otherwise to qualify for this concession.

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

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

What is a Conceded Deferred Examination?

A conceded deferred examination may be granted to a student where the mark in the subject is below the standard at which deferred examinations have been granted in the subject but whose overall performance warrants such a concession.

Change in the deferred examination system from March 1978

The system of formal deferred examinations administered by the Registrar's Division will be abolished from 1 March 1978. Schools and Faculties may carry out whatever additional assessment may be considered appropriate, including assessment or additional assessment on medical or compassionate grounds.

Can I buy copies of previous examination papers?

Yes—for 5c each from the University Union's Upper Campus Shop in the Commerce Building.

Essays

Should I list my sources?

Students are expected to acknowledge the sources of ideas and expressions that they use in essays. To provide adequate documentation is not only an indication of academic honesty but also a courtesy enabling the marker to consult your sources with ease. Failure to do so may constitute plagiarism which is subject to a charge of academic misconduct.
Student Conduct on Campus

Is there a detailed code of rules related to the general conduct of students?

No. The University has not considered it necessary to formulate a detailed code of rules relating to the general conduct of students.

However, now that you have become a member of the University you should understand that this involves an undertaking on your part to observe its rules, by-laws and other requirements, and to pay due regard to any instructions conveyed by any officer of the University.

What are the rules related to attendance at classes?

You are expected to be regular and punctual in attendance at all classes in the course or subject in which you are enrolled. All applications for exemption from attendance at lectures or practical classes must be made in writing to the Registrar.

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

Leave of Absence

Applications for leave of absence from lectures should be addressed to the Registrar and, where applicable, should be accompanied by a medical certificate. If examinations have been missed, this should be stated in the application.

If you attend less than 80 per cent of their possible classes, you may be refused permission to sit for the examination in that subject.

Why is my University Union card important?

All students enrolled for courses leading to degrees and/or diplomas, except those exempt from fees, are issued with a University Union membership card. Your card must be carried during attendance at the University and shown on request.

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

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

If you lose your Union card it is important to notify the University Union as soon as possible.

New students will be issued with University Union cards on enrolment.

Why should I inform the University if I change my address?

If you change your address you should notify the Student Records Section of the Registrar's Division as soon as possible. Failure to do this could lead to important correspondence (including examination results) not reaching you. The University cannot accept responsibility if official communications fail to reach students who have not notified their change of address. Change of Address Advice Forms are available at Faculty and School offices and at the Enquiry Desk on the Ground Floor of the Chancellery Building.

All communications from the University, including examination results, will be sent to the session address. Change of address advice will be accepted up to 30 November, except for final-year students wishing to change their Submission of Details Associated with Graduation form. Changes to this form will be accepted up to a date four weeks before the student's graduation ceremony.

Will the University release information to third parties without my permission?

In general, no. The University treats examination results and information it receives from a student as confidential and will not reveal such information to third parties without the permission of the student except at the discretion of senior officers in circumstances considered of benefit to the student and when it is either impossible or impracticable to gain the student's prior permission. This happens rarely. This policy is considered so important that it often involves officers of the University in very difficult situations, for example, when they must refuse to reveal the address of a student to parents or other relatives.

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

All students should be aware that students' addresses are eagerly sought by various commercial agents and that sometimes tricks are used to obtain them. For example, from time to time people claiming to be from the University telephone students or their families and ask for information (usually another student's address) which is often given, unsuspectingly. There is evidence that this is a technique used by commercial agents.
It would be generally helpful if students (and their families and friends) are cautious in revealing information, making it a practice to ask the name, position, and telephone extension of any caller claiming to be from the University and, if suspicious, returning the call to the extension given.

**How are student records kept up to date?**

Enrolment details forms will be sent to all students on 28 April and 15 September. It is not necessary to return these forms unless any information recorded therein is incorrect. Amended forms must be returned to the Examinations and Student Records Section within fourteen days. Amendments notified after the closing date will not be accepted unless exceptional circumstances exist and approval is obtained from the Registrar. Amended forms returned to the Registrar will be acknowledged in writing within 14 days.

**Is there any rule related to the ownership of students' work?**

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

**Can I get a permit to park on campus?**

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

**Lost Property?**

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

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**Further Information**

Where can I get further information concerning courses, admission requirements, scholarships and enrolment procedure?

**General**

Any student who requires information on the application of these rules or any service which the University offers, may make enquiries from the Admissions Office, the Student Counselling Unit or the Registrar.

**Notices**

Official University notices are displayed on the notice boards and students are expected to be acquainted with the 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), Electrical Engineering Building, Main Building (Physics and Mining Engineering) and in the Western Grounds Area. Notices are placed on the University notice boards each month detailing forthcoming important dates. Any change to the Calendar of Dates is included in these notices.

**Appeals**

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

**The Calendar**

Please consult the Calendar if you want a more detailed account of the information contained in this section.

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**Vice-Chancellor's Official Welcome to New Students**

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

**Full-time Students**

In the Faculties of Architecture, Arts, Biological Sciences, Commerce, Law:

- Monday 27 February 1978
- 11 am in the Clancy Auditorium

In the Faculties of Applied Science, Engineering, Medicine, Professional Studies, Science, and the Board of Studies in Science and Mathematics:

- Tuesday 28 February 1978
- 11 am in the Clancy Auditorium

**Part-time Students**

- Tuesday 28 February 1978
- 6.30 pm in the Clancy Auditorium

**Meeting for Parents of New Students**

- Friday 3 March 1978
- 7.30 pm in the Clancy Auditorium
Since the beginning of recorded history man has sought to endow his environment with physical and spiritual qualities appropriate to his way of life. He has developed the materials and techniques available to him to adapt the natural environment to his own purposes, and in so doing has endeavoured to create buildings of enduring beauty. In each great culture of the past this search produced characteristic architecture which reflected the aspirations and the capabilities of its age.

To-day architects, landscape architects, builders and town planners are faced with problems of increasing difficulty resulting from the complexity of modern requirements, and the range and diversity of the new materials and techniques available to them. For the first time in history material progress threatens to outstrip man's visionary and creative powers and to overwhelm his capacity for assimilation.

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

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

Students seeking advice should contact the representative of the relevant School. A list appears below:

**Faculty of Architecture**

- School of Architecture
- Department of Landscape Architecture
- School of Building
- School of Town Planning

- Richard Apperly
- Professor Peter Spooner
- Noela Jorm
- Associate Professor Elias Duek-Cohen
Staff

Comprises Schools of Architecture, Building, and Town Planning.

Dean
Professor G. E. Roberts

Chairman
Professor E. C. Daniels

Executive Assistant
R. E. Apperly

Senior Administrative Officer
Brian John Newell, BCom N.S.W.

School of Architecture

Professor of Architecture and Head of Department of Undergraduate Studies
Eric Charles Daniels, MArch N.S.W., ASTC, FRAIA, Hon.MIES

Professor of Landscape Architecture and Head of Department
Peter Spooner, DipLD Durh., ASTC, FRAIA, FILA, FAILA, ARIBA

Associate Professors
Neville Joseph Anderson, BArch Syd., MArch Liv., DipTP Lond., FRAIA, MRTPi
Laszio Peter Kollar, MArch PhD N.S.W., ASTC, FRAIA
Anita Barbara Lawrence, MArch N.S.W., FRAIA, MAAS

Administrative Officer
Randall Watkins, DipTech N.S.W.I.T., MRIPA

Senior Lecturers
Richard Eric Apperly, BArch Syd., MArch N.S.W.
Robert G. Head, MSc(Building) N.S.W., ASTC, FRAIA
Robert Charles Lewis Irving, MArch N.S.W., ARMTC, FRAIA
Paul Alan Johnson, BArch Syd., DipCD N.S.W., ARAIA
Peter Thomas Oppenheim, BArch Cape T., MArch PhD N.S.W., ARIBA, ARAIA
Sidney Charles Palmer, BArch Syd., MArch N.S.W., FRAIA
Nancy Claire Peterson, BArch N.Z., MBdgSc Syd., FIEC, ANZIA, ARAIA
Arthur Edgcombe Rupert Purkis, MArch N.S.W., FRAIA, ARIBA
Peter Leggett Reynolds, BArch PhD N.S.W.
Clive William Stevens, MArch N.S.W., DipTCP Syd., ASTC
Barry Vivian Wollaston, BArch Syd., FRAIA
Kenneth James Wyatt, BE Qld., MBdgSc Syd., MIEAust
Lecturers
John Albyn Ballinger, BArch Adel., ARAIA
Chris LeRoy Bell, BArch (Calif).
Robert John Bryant, BArch N.S.W., MTCP Syd., ASTC, MRAPI, ARAIA
Geoffrey Lindsay Dwyer, ARAIA
Richard Granley Fitzhadinge, DipArch (Kingston on Thames Poly.), MArch Calif., ARIBA, ARAIA
John Barrie Fraser, DipArt(Ed)
Pete Hale, BArch N.S.W., ARAIA
Graeme Ross Hewett, MSc(Building) N.S.W., ASTC, ARAIA
Richard Hough, BSc BE N'cle.(N.S.W.), MEng Tor., MIEAust
Nicholas Marinov, DipArch Prague
Lorna Muir Nimmo, ASTC, FRSA
Ian Roy Patrick, ASTC, ARIBA, ARAIA
Peter Reginald Proudfoot, BArch Syd., MArch Penn., PhD N.S.W., Rome Scholar
Vinzenz Franz-Josef Sedlak, DiplIngArch. T.U. Graz, MPhil Sur.
Warren Albert Selle, BArch Syd., FRAIA
Harry Anthony Stephens, BArch DipLD N.S.W., ARAIA
Kwong Hon Tang, BArch H.K., MArch Melb., ARIBA, ARAIA
Brian Woodward, DipLArch Oxf., RIBA

Senior Tutors
Victor Martin Berk, BArch, DipAdmin N.S.W.
Marion Anne Burgess, BSc Syd., MSc(Acoustics) N.S.W., MAAS
Elizabeth Ann Howard, BArch Syd., BA Macq.
Geoffrey Kenneth Le Sueur, BArch GradDip N.S.W.
Paul Edward Walsh, BArch N.S.W.

Tutors
John Robert Kinstler, BArch Syd.
George Michael Rich, BArch N.S.W.
Richard Ralph Winterton, BA DipArch Camb., RIBA

School of Building

Associate Professor and Acting Head of School
Roger Mark Anthony Miller, BBuild N.S.W., SM CE M.I.T., AAIB

Professor of Building
Vacant

Senior Lecturers
Charles Walter Anderson, MBuild N.S.W., ASTC, FAIB
John Malcolm Hutcheson, MC, BE Syd., BCom Qld., MBA N.S.W., FIEAust, FID, FAIA, AAUQ, LGE, AASA(Snr), AFAIM, AAIB
Allan Alexander Jack, MBuild N.S.W., ASTC, FAIB
Graham Edward Levido, BBuild MSc(Building) N.S.W., AAIB

Lecturers
Ojars Indulis Greste, ME N.S.W., DEng Calif.
David Nevil Hume Hassall, BE MBdgSc Syd., MIEAust
Bruce Hadford Hawkins, BE W.Aust.
Martin Marosszeky, BE N'cle.(N.S.W.), MEngSc N.S.W., MIEAust
James Francis Mooney, ASTC, FIQSA
Clyde Donald Smythe, MBuild N.S.W., ASTC, AAIB

Tutor
Carol Rose Edds, BBuild N.S.W.

School of Town Planning

Associate Professor and Acting Head of School
Elias David Duek-Cohen, MA Oxf., BArch Liv., DipTP Lond., FRAPI, MRTPI, ARIBA, ARAIA

Professor of Town Planning
Vacant

Senior Lecturers
James Leslie King, BArch MTCP Syd., FRAPI
Zula Nittim, BArch Melb., DipCD PhD N.S.W., FRAIA

Lecturers
Douglas Robert Daines, DipTCP Syd., MRAPI, ACIV
Stephen Harris, BTP N.S.W., MRAPI
Neville Thomas Schaefler, BA N.E., PhD N.S.W.
Faculty Information

Faculty of Architecture
Enrolment Procedures

All students re-enrolling in 1978 should obtain a copy of the free booklet Enrolment Procedures 1978 available from School Offices and the Admissions Office. This booklet provides detailed information on enrolment procedures and fees, enrolment timetables by Faculty and course, enrolment in miscellaneous subjects, locations and hours of Cashiers and late enrolments.

Town Planning Degree Course
Before proceeding on practical experience Town Planning students are required to obtain instruction relating to enrolment procedure from the School of Town Planning office. This particularly applies to Third and Fourth year students.

Bachelor of Architecture Degree Course
Students entering the first year of the BArch degree course are required to enrol, and will be sent enrolment instructions by mail, notwithstanding the fact that the year is devoted to practical experience.

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 Enrolment Procedures 1978.

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 dependent on the successful completion of prerequisites and/or co-requisites for subjects as listed in the schedules of subjects for each course.

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

Library Facilities

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

The Physical Sciences Library

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

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

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

Physical Sciences Librarian  Marian Bate
Undergraduate Librarian  Pat Howard

Computing Facilities Laboratory

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

The above equipment is optionally connected by data link to the University’s central computing system, a major Cyber 72/171 multiprocessor configuration. Active research is under way in the following areas:

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

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

The Faculty Laboratories

Research Laboratories

The Faculty controls Research Laboratories situated on campus at Kensington and at the University of New South Wales Research Station, King Street, Randwick. The laboratories have sections equipped for work on Environment and Climate, Materials, Model Testing, Services, Lighting and Acoustics. Extensive testing and research equipment and workshop facilities are available, including a wind-rain machine, a weatherometer, an artificial sky and sun, a structural modelling facility, a structural testing bay and a controlled atmosphere chamber. The equipment and facilities of the Laboratory are continually being expanded. Research work and testing programs carried out in the Laboratories include:
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.

Financial Assistance to Students

The scholarships and prizes listed below are available to students whose courses appear in this handbook. Each faculty handbook contains in its Faculty Information section the scholarships and prizes available within that faculty. The General Information section of the Calendar contains a comprehensive list of scholarships and prizes offered throughout the University.

Scholarships

Undergraduate Scholarships

As well as the assistance mentioned earlier in this Handbook (see General Information: Financial Assistance to Students) there are a number of scholarships available to students. What follows is an outline only. Full information may be obtained from the Student Employment and Scholarships Unit, located on the Ground Floor of the Chancellery.

Unless otherwise indicated in footnotes, applications for the following scholarships should be made to the Registrar by 14 January each year.

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bursary Endowment Board*</td>
<td>$300 pa if living at home;</td>
<td>Minimum period of approved degree/combined degree course</td>
<td>Merit in HSC and total family income not exceeding $4000.</td>
</tr>
<tr>
<td></td>
<td>$400 pa if living away from home</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Apply to The Secretary, Bursary Endowment Board, Box 7077, GPO, Sydney 2001 immediately after sitting for HSC.
Undergraduate Scholarships (continued)

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sam Cracknell Memorial</td>
<td>Up to $1500 pa payable in fortnightly instalments</td>
<td>1 year</td>
<td>Prior completion of at least 2 years of a degree or diploma course and enrolment in a full-time course during the year of application; academic merit; participation in sport both directly and administratively; and financial need.</td>
</tr>
<tr>
<td>Air Force Association Memorial Scholarship</td>
<td>$250 pa</td>
<td>1 year renewable for the duration of the course subject to satisfactory progress</td>
<td>Child of member or former member of Royal Australian Air Force undertaking a full-time degree course.</td>
</tr>
<tr>
<td>Girls' Realm Guild Scholarship</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 enrolling in any year of a full-time undergraduate course on the basis of academic merit and financial need.</td>
</tr>
</tbody>
</table>

Graduate Scholarships

Applications for scholarships should be made in triplicate on the required form, and sent to the Registrar by 31 October. Eligibility depends on such factors as the applicant holding an honours degree or equivalent qualification, or having relevant experience. Students completing the final year of a course may apply. Those under bond should disclose this fact. Awards are tenable for one year, and may be renewed for a maximum of two years for a Masters and 3 to 4 years for a PhD degree. Renewal each year is subject to satisfactory progress. Any exceptions from these requirements are indicated.

Application forms and further information are available from the Student Employment and Scholarships Unit, which is located on the ground floor of the Chancellery. This Unit produces the booklet Graduate Awards, and also provides information on additional scholarships which may become available from time to time, mainly from funds provided by organizations sponsoring research projects.

Where possible, the scholarships are listed in order of the schools within the faculty.
## 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>University of New South Wales Research Awards</td>
<td>1-2 years for a Masters and 3-4 years for a PhD degree</td>
<td>As above</td>
<td>Applicants must be honours graduates (or equivalent).</td>
</tr>
<tr>
<td>Commonwealth Government (Research Awards)</td>
<td>Living allowance of $4200 pa. Other allowances may also be paid.</td>
<td>1-2 years; minimum duration of course</td>
<td>Applicants must be honours graduates (or equivalent) who will graduate with honours in current academic year, and who are permanent residents of Australia.</td>
</tr>
<tr>
<td>Commonwealth Government (Course Awards)</td>
<td></td>
<td></td>
<td>Applicants must be graduates or scholars who will graduate in current academic year and who are permanent residents of Australia, and who have not previously held a Commonwealth Postgraduate Award. Applications to Registrar by 30 September.</td>
</tr>
<tr>
<td>Australian American Educational Foundation Travel Grant*</td>
<td>A total of $500/$3200</td>
<td>Up to 1 year</td>
<td>Applicants must be female graduates from any accredited Australian or overseas university.</td>
</tr>
<tr>
<td>Australian Federation of University Women</td>
<td>Cost of travel to UK or other Commonwealth country university</td>
<td></td>
<td>Applicants must be: 1. University staff on study leave. Applications close with Registrar by 30 November. For visits to commence during ensuing financial year 1 April to 31 March. 2. Graduate research workers holding research grants. Applications close with Registrar by 28 February for visits to commence during ensuing 1 April to 31 March.</td>
</tr>
<tr>
<td>The Caltex Woman Graduate of the Year Scholarship</td>
<td>$5000 pa for further studies in USA, UK, Northern Europe or in special cases Australia. There are no special allowances for travel or accommodation for married graduates</td>
<td>2 years</td>
<td>Applicants must be female graduates who 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.</td>
</tr>
</tbody>
</table>

*Application forms are available from: The Secretary, Department of Education, AAEF Travel Grants, PO Box 826, Woden, ACT 2606.*
<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canadian Pacific Airlines Award for Travel to Canada for University Graduates</td>
<td>One free economy class return flight a year to Canada</td>
<td></td>
<td>Graduates of an Australian University who are Australian citizens or permanent residents. Candidates must have been accepted by a Canadian University, be able to support themselves on a full-time basis, and intend to return to Australia. Applications close with Registrar by 31 May.</td>
</tr>
<tr>
<td>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>Graduates who are Commonwealth citizens or British Protected Persons, and who are not older than 35 years of age. Applications close with Registrar by 1 October.</td>
</tr>
<tr>
<td>General Motors Holden's Research Fellowship</td>
<td>Living allowance and other allowances</td>
<td>Maximum of 3 years</td>
<td>Graduates qualified to undertake research program for Masters or PhD degree.</td>
</tr>
<tr>
<td>Gowrie Graduate Research Travelling Scholarship</td>
<td>Maximum $2000 pa</td>
<td>2 years</td>
<td>Applicants must be members of the Forces or children of members of the Forces who were on active service during the 1939-45 War.</td>
</tr>
<tr>
<td>Harkness Fellowships of the Commonwealth Fund of New York*</td>
<td>Living and travel allowances, tuition and research expenses, book and equipment and other allowances</td>
<td>Between 12 to 21 months</td>
<td>Candidates must be either: 1. Members of the Commonwealth or a State Public Service or semi-government Authority. 2. Staff or graduate students at an Australian university. 3. Individuals recommended for nomination by the Local Correspondents. The candidate will usually have an honours degree and be between 21-30 years of age. Applications close 23 July.</td>
</tr>
<tr>
<td>IBM Graduate Scholarship Plan</td>
<td>A maximum of $1200 pa</td>
<td>A maximum of 2 years for a degree of Master and 4 years for a PhD</td>
<td>Graduates must already hold a scholarship, such as an Australian Government Postgraduate Research Award and be studying computer science or its applications. Applications close with Registrar by 30 November.</td>
</tr>
</tbody>
</table>

*Application forms must be obtained from the Australian representative of the Fund, Mr L. T. Hinde, Reserve Bank of Australia, Box 3947, GPO, Sydney, NSW 2001. These must be submitted to the Registrar by 24 July.
### Graduate Scholarships (continued)

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General (continued)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frank Knox Memorial Fellowships at Harvard University</td>
<td>Stipend of $3400 plus tuition fees pa</td>
<td>2 years</td>
<td>Applicants must be British subjects and Australian citizens, who are graduates or near graduates of an Australian University.</td>
</tr>
<tr>
<td>Nuffield Foundation Commonwealth Travelling Fellowships†</td>
<td>Living and travel allowances</td>
<td>1 year</td>
<td>Australian citizens usually between 25 and 35 who are graduates preferably with higher degrees and who have at least a year's teaching or research experience at a university. Applications close by February.</td>
</tr>
<tr>
<td>The Rhodes Scholarship**</td>
<td>£3000 stg pa</td>
<td>2 years, may be extended for a third year</td>
<td>Unmarried male and female British subjects, between the ages 19 and 25 who have been domiciled in Australia at least 5 years and have completed at least 2 years of an approved university course. Applications close in July each year.</td>
</tr>
<tr>
<td>Rothmans Fellowships Award‡</td>
<td>$12000 pa</td>
<td>Up to 3 years</td>
<td>The field of study is unrestricted. Applications close early September each year.</td>
</tr>
</tbody>
</table>

†Applications to the Secretary, The Nuffield Foundation Australian Advisory Committee, Chemistry Laboratory, Barry Building, University of Melbourne, Parkville, Victoria 3052.
**Applications to Mr H. McCredie, Secretary of the NSW Committee, University of Sydney, NSW 2006.
‡Applications to The Secretary, Rothmans University Endowment Fund, University of Sydney, NSW 2006.

### 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 Master Builders' Association of NSW</td>
<td>$500 ($250 at commencement of each year)</td>
<td>2 years</td>
<td>Applicants must be graduates who have enrolled in the Master of Science (Building) Course.</td>
</tr>
<tr>
<td>Wightman/University Scholarship</td>
<td>$2000 pa</td>
<td>1 year</td>
<td>Best final-year student in BArch degree course.</td>
</tr>
<tr>
<td>The Lindsay Robertson Memorial Travel Award</td>
<td>A maximum of $1000</td>
<td>1 year</td>
<td>Candidates should be Landscape Architecture graduates of the University of New South Wales. The award is to undertake full-time graduate study or research in Landscape Architecture at an approved overseas University or other approved overseas institution. Applications close 30 May.</td>
</tr>
<tr>
<td>Wormald International Scholarship</td>
<td>$4500 pa</td>
<td>1 year</td>
<td>Applicants must be honours Architecture graduates of the University of New South Wales.</td>
</tr>
</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.

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sydney Technical College Union Award</td>
<td>50.00</td>
<td>Leadership in the development of student affairs, and academic proficiency throughout the course.</td>
</tr>
<tr>
<td>University of New South Wales Alumni Association</td>
<td>Statuette</td>
<td>Achievement for community benefit — students in their final or graduating year.</td>
</tr>
<tr>
<td><strong>School of Architecture</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Board of Architects of New South Wales</td>
<td>100.00</td>
<td>An outstanding graduand in the School of Architecture.</td>
</tr>
<tr>
<td>Byrne &amp; Davidson (Mfg) Pty Ltd</td>
<td>100.00</td>
<td>11.121 History of Architecture I.</td>
</tr>
<tr>
<td>Chamber of Manufactures of New South Wales</td>
<td>15.00</td>
<td>Subject selected by Head of School.</td>
</tr>
<tr>
<td>Frank Fox</td>
<td>100.00</td>
<td>11.8511 or 11.8521 Historical Research.</td>
</tr>
<tr>
<td>James Hardie &amp; Co Pty Ltd</td>
<td>100.00</td>
<td>General proficiency throughout the BArch degree course.</td>
</tr>
<tr>
<td>Frank W. Peplow</td>
<td>24.00</td>
<td>Church Architecture.</td>
</tr>
<tr>
<td>Lindsay Robertson Memorial</td>
<td>100.00</td>
<td>11.512 Landscape Design II.</td>
</tr>
<tr>
<td>Royal Australian Institute of Architects</td>
<td>50.00</td>
<td>Architectural Design and allied subjects in last two years of BArch degree course.</td>
</tr>
<tr>
<td><strong>School of Botany</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E. O. Tout Memorial</td>
<td>40.00</td>
<td>Best aggregate any five subjects offered by School of Botany.</td>
</tr>
<tr>
<td><strong>School of Building</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Byrne &amp; Davidson Roll-a-door</td>
<td>100.00</td>
<td>Bachelor of Building, Year III.</td>
</tr>
<tr>
<td>James Hardie &amp; Co Pty Ltd</td>
<td>50.00</td>
<td>Bachelor of Building, Year I.</td>
</tr>
<tr>
<td>Master Builders' Association of New South Wales</td>
<td>200.00</td>
<td>Subjects selected by Head of School.</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 Town Planning</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The NSW Planning and Environment Commission</td>
<td>150.00</td>
<td>Bachelor of Town Planning, Year V.</td>
</tr>
<tr>
<td>Royal Aust Planning Institute, NSW Division</td>
<td>100.00</td>
<td>Bachelor of Town Planning, Year III.</td>
</tr>
</tbody>
</table>

Graduate University Prizes

General

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Thistlethwayte Memorial Prize</td>
<td>100.00</td>
<td>Best essay in the field of water—waste water treatment or water quality management, by MEngSc, MAppSc, ME, MSc student.</td>
</tr>
</tbody>
</table>

School of Building

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alex Rigby</td>
<td>105.00</td>
<td>Master of Science (Building) — Distinguished graduate.</td>
</tr>
</tbody>
</table>

School of Transport and Highways

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td>Veteran Motorists of Australia</td>
<td>20.00</td>
<td>Traffic Planning and Control.</td>
</tr>
</tbody>
</table>
Undergraduate Study

The Faculty of Architecture consists of the School of Architecture, the School of Building and the School of Town Planning. These Schools conduct undergraduate courses in the fields of Architecture, Building, Town Planning and Landscape Architecture. The courses provide education and training in the arts and sciences involved in the design and construction of buildings, in the development of cities and in landscape. In addition to professional and vocational training the courses include general studies subjects to provide graduates with a broad understanding of the humanities and social sciences.

by the School to reflect the advances in science and technology on the one hand, and the changing needs of society on the other, it is also important that they encourage students to develop their own interests and creative abilities within the framework of the undergraduate courses offered by the School.

The School is introducing a revised course structure for undergraduates commencing their architectural studies in 1978. See Section A later in this handbook.

Students who commenced their architectural studies before 1978 will continue the courses which they have commenced, and the existing BSc(Arch) and BArch degree courses continue to be offered to these students in 1978. See Section B later in this handbook.

School of Architecture

Architecture is concerned with the design and construction of buildings. Today the process of design and construction reflects the increasingly technological age in which we live, and contemporary architects require a wide range of knowledge and skills if they are to fulfill their important role in society. Foremost amongst the architect's skills is the ability to design, for it is as designers that architects make their greatest contribution to society. But the practice of architecture involves knowledge in such diverse fields as structures, economics, law, and an understanding of broad environmental factors. Architecture is a synthesis of art and science, and, while it is essential for the courses offered

Section A

For Students Commencing their Architectural Studies in 1978

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

The revised undergraduate courses, available to new students entering the School in 1978, lead to the award of the BSc(Arch) pass degree, the BSc(Arch) degree with honours, and the BArch degree for which honours may be awarded based on performance throughout the course.
The subjects in these courses are offered on a semester-unit credit-point basis. Credit points generally correspond to class hours per week per semester, and it is expected that students take a program of 26 credit points per semester. The minimum time, and the credit points required to complete the revised degree courses offered by the School are as follows:

<table>
<thead>
<tr>
<th>Minimum time (semesters)</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc(Arch) pass degree</td>
<td>6</td>
</tr>
<tr>
<td>BSc(Arch) degree with Honours</td>
<td>8</td>
</tr>
<tr>
<td>BArch degree</td>
<td>10</td>
</tr>
<tr>
<td>BSc(Arch) and BArch degrees</td>
<td>11</td>
</tr>
</tbody>
</table>

Students commencing their studies in architecture enrol in the BSc(Arch)/BArch program (Course 327) and undertake a mandatory program of study in the first two semesters. Thereafter students may, with the approval of the Head of School, take subjects in the order best suited to their individual preferences, subject to prerequisite requirements and provided the subjects are being offered in the appropriate semester. On acquiring 130 credit points, and after the completion of at least five semesters of study, students proceeding to the award of the BArch degree transfer into the BArch program (Course 328) and students proceeding to the award of the BSc(Arch) degree or the BSc(Arch) degree with Honours transfer into the BSc(Arch) program (Course 329).

Students may, with the approval of the Head of School, transfer from the BArch program to the BSc(Arch) program or from the BSc(Arch) to the BArch program. It should be noted that credit points gained in the BSc(Arch) program (Course 329) cannot be credited towards the award of the BArch degree, and that credit points gained in the BArch program (Course 328) cannot be credited towards the award of the BSc(Arch) degree.

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

**Bachelor of Science (Architecture) Degree — Pass Course**

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

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

**Mandatory Subjects**

<table>
<thead>
<tr>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>First semester</td>
</tr>
<tr>
<td>Second semester</td>
</tr>
<tr>
<td>Graduation semester</td>
</tr>
</tbody>
</table>

(including Graduation Project of 8 credit points)

**Elective Subjects**

Minimum of credit points which may be taken from subjects offered by the Department of General Studies 6

Minimum of credit points which may be taken from subjects offered by the Faculty of Architecture. These may be either core or elective subjects 34

Maximum of credit points which may be taken from subjects available in other Schools, Boards of Studies or Faculties of the University 41

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

**Bachelor of Science (Architecture) Degree — Honours Course**

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

Enrolment in this course is based upon performance in the BSc(Arch) pass degree and on the standard achieved in the Graduation Project. Involves a minimum of two semesters of full-time study of an approved program. To qualify for this degree the program of study is as follows:

<table>
<thead>
<tr>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSc(Arch) Pass Degree to be obtained in accordance with the program set out above</td>
</tr>
<tr>
<td>Honours Semester I</td>
</tr>
<tr>
<td>Honours Semester II</td>
</tr>
</tbody>
</table>

The 52 credit points gained in the Honours Semesters may only be credited to the BSc(Arch) degree with Honours.
Undergraduate Study

Bachelor of Architecture Degree Course

Bachelor of Architecture
BArch

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

<table>
<thead>
<tr>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
</tr>
<tr>
<td>24</td>
</tr>
<tr>
<td>92</td>
</tr>
</tbody>
</table>

Mandatory Subjects

First semester 25
Second semester 24
The core subjects listed in the schedule of subjects 92

Elective Subjects

Minimum of credit points which may be taken from subjects offered by the Department of General Studies 12
Minimum of credit points which may be taken from subjects offered by the Faculty of Architecture 48
Maximum of credit points which may be taken from subjects offered by other Schools, Boards of Studies and Faculties of the University 21
Thesis 12

Practical Experience

Approved practical experience 6
240

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

Honours for this degree may be awarded based on performance throughout the course.

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

1. Architectural Design
   General 14
   Specific 36
2. Architectural Environment 29
3. Technology 34
4. Practice 11
5. Communication 17

141

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 studios through the design projects included in the syllabus for Architectural Design—Specific, as set out in the schedule of subjects (see following pages).

Subjects of the First Two Semesters

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

First Semester

<table>
<thead>
<tr>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
</tr>
<tr>
<td>5</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>6</td>
</tr>
<tr>
<td>25</td>
</tr>
</tbody>
</table>

11.4101 Principles of Design
11.4301 Context of Architecture
11.4401 Principles of Construction
11.4402 Structures and Materials
11.4601 Introduction to Communication

Second Semester

<table>
<thead>
<tr>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>4</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>2</td>
</tr>
<tr>
<td>5</td>
</tr>
</tbody>
</table>

11.4201 Living Unit
11.4303 Introduction to Architectural Science
11.4307 World Architecture
11.4403 Principles of Structures
11.4501 Practice and Management I
11.4602 Introduction to Computing
11.4603 Graphic Communication

24

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

Progression and Re-Enrolment

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

35
Honours

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

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

Registration and Professional Recognition

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

It is anticipated that the introduction of the revised BSc(Arch) and BArch courses will not lead to any change to the conditions for 'Registration and Professional Recognition’ as set out on page 40 of this Handbook.

Schedule of Subjects Offered by the School of Architecture in Courses 327, 328 and 329

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

Architectural Design — General

Core Subjects

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4101</td>
<td>Principles of Design</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>11.4102</td>
<td>Design Theory I</td>
<td>5</td>
<td>11.4101</td>
</tr>
<tr>
<td>11.4103</td>
<td>Design Theory II</td>
<td>5</td>
<td>11.4102, 11.4201</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>11.4120</td>
<td>Design Theory III</td>
<td>4</td>
<td>11.4103</td>
</tr>
<tr>
<td>11.4121</td>
<td>Theory of Form</td>
<td>4</td>
<td>11.4103</td>
</tr>
<tr>
<td>11.4122</td>
<td>Theory of Architecture I</td>
<td>4</td>
<td>11.4120</td>
</tr>
<tr>
<td>11.4123</td>
<td>Theory of Architecture II</td>
<td>4</td>
<td>11.4122</td>
</tr>
<tr>
<td>11.4124</td>
<td>Geometry &amp; Design</td>
<td>4</td>
<td>11.4103</td>
</tr>
<tr>
<td>11.4125</td>
<td>Interior Design I</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>11.4126</td>
<td>Interior Design II</td>
<td>4</td>
<td>11.4125</td>
</tr>
<tr>
<td>11.4127</td>
<td>Design for Conservation</td>
<td>4</td>
<td>11.4328</td>
</tr>
<tr>
<td>11.4128</td>
<td>Computed Design Projects</td>
<td>6</td>
<td>11.4602</td>
</tr>
<tr>
<td>11.4129</td>
<td>Research &amp; Survey Methods</td>
<td>4</td>
<td>11.4103</td>
</tr>
<tr>
<td>11.4130</td>
<td>Criticism &amp; Evaluation</td>
<td>4</td>
<td>11.4103</td>
</tr>
<tr>
<td>11.4131</td>
<td>Principles of Dwellings</td>
<td>3</td>
<td>11.4102, 11.4201</td>
</tr>
</tbody>
</table>

Architectural Design — Specific

Core Subject

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4201</td>
<td>Living Unit</td>
<td>4</td>
<td>nil</td>
</tr>
</tbody>
</table>

Core & Elective Subjects

Community Facilities I

(one subject compulsory, the others may be taken as electives)

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4211</td>
<td>Cultural Facilities I</td>
<td>6</td>
<td>11.4303, 11.4401</td>
</tr>
<tr>
<td>11.4212</td>
<td>Commercial Facilities I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4213</td>
<td>Health &amp; Welfare Facilities I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4214</td>
<td>Educational Facilities I</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 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></td>
<td><em>Residential Facilities I</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>(one subject compulsory, the others may be taken as electives)</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4221</td>
<td>Detached Houses</td>
<td>11.4221 to 11.4214</td>
<td>11.4102, 11.4404, 11.4201 and one from</td>
</tr>
<tr>
<td>11.4222</td>
<td>Group Dwellings</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>11.4223</td>
<td>Housing in Tropical, Sub-tropical and Arid Zones</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Community Facilities II</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>(one subject compulsory, the others may be taken as electives)</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4231</td>
<td>Commercial Facilities II</td>
<td>11.4211 to 11.4214</td>
<td>11.4102, 11.4405, 11.4201 and one from</td>
</tr>
<tr>
<td>11.4232</td>
<td>Industrial Facilities</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>11.4233</td>
<td>Health &amp; Welfare Facilities II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4234</td>
<td>Government Facilities I</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Residential Facilities II</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>(one subject compulsory, the others may be taken as electives)</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4241</td>
<td>Urban Housing</td>
<td>11.4213 to 11.4214</td>
<td>11.4103, 11.4407, one from 11.4221 to 11.4223 and one from 11.4231 to 11.4234</td>
</tr>
<tr>
<td>11.4242</td>
<td>Low-Cost Housing</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>11.4243</td>
<td>Tourist Facilities</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Community Facilities III</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>(one subject compulsory, the others may be taken as electives)</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4251</td>
<td>Educational Facilities II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4252</td>
<td>Government Facilities II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4253</td>
<td>Cultural Facilities II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4254</td>
<td>Urban Development</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4255</td>
<td>Recreational Facilities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4256</td>
<td>Transport Buildings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.4257</td>
<td>Ecclesiastical Architecture</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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>Context of Architecture</td>
<td>5</td>
<td>nil</td>
</tr>
<tr>
<td>11.4302</td>
<td>Urbanism</td>
<td>2</td>
<td>11.4309</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>World Architecture</td>
<td>3</td>
<td>nil</td>
</tr>
<tr>
<td>11.4308</td>
<td>Western Architecture</td>
<td>3</td>
<td>11.4307</td>
</tr>
<tr>
<td>11.4309</td>
<td>Australian Architecture</td>
<td>3</td>
<td>11.4308</td>
</tr>
</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, 11.4407</td>
</tr>
<tr>
<td>11.4323</td>
<td>Room Acoustics</td>
<td>2</td>
<td>11.4306</td>
</tr>
<tr>
<td>11.4324</td>
<td>Lighting Design</td>
<td>2</td>
<td>11.4305</td>
</tr>
<tr>
<td>11.4325</td>
<td>Tropical Architecture</td>
<td>2</td>
<td>11.4303</td>
</tr>
</tbody>
</table>
### 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>11.4326</td>
<td>Acoustics Research</td>
<td>4</td>
<td>11.4306</td>
</tr>
<tr>
<td>11.4327</td>
<td>Lighting Research</td>
<td>4</td>
<td>11.4324</td>
</tr>
<tr>
<td>11.4328</td>
<td>Appropriate Technology</td>
<td>2</td>
<td>11.4301, 11.4303</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, 145 credit points</td>
</tr>
<tr>
<td>11.4333</td>
<td>Historical Research B</td>
<td>3</td>
<td>11.4309, 145 credit points</td>
</tr>
<tr>
<td>11.4334</td>
<td>Historical Research C</td>
<td>3</td>
<td>11.4309, 145 credit points</td>
</tr>
<tr>
<td>11.4335</td>
<td>Eastern Architecture</td>
<td>2</td>
<td>11.4307</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>11.4302</td>
</tr>
<tr>
<td>11.4343</td>
<td>Urban Planning</td>
<td>4</td>
<td>11.4302</td>
</tr>
<tr>
<td>11.4344</td>
<td>Landscape Planning</td>
<td>4</td>
<td>11.4303</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>11.4404</td>
<td>Structures &amp; Construction A</td>
<td>5</td>
<td>11.4401, 11.4402, 11.4403</td>
</tr>
<tr>
<td>11.4405</td>
<td>Structures &amp; Construction B</td>
<td>5</td>
<td>11.4401, 11.4402, 11.4403</td>
</tr>
<tr>
<td>11.4406</td>
<td>Systems in Building</td>
<td>4</td>
<td>11.4407, 11.4408</td>
</tr>
<tr>
<td>11.4407</td>
<td>Services A</td>
<td>3</td>
<td>11.4303, 11.4404</td>
</tr>
<tr>
<td>11.4408</td>
<td>Services B</td>
<td>3</td>
<td>11.4304, 11.4404, 11.4405</td>
</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>11.4404</td>
</tr>
<tr>
<td>11.4421</td>
<td>Technology for High-rise Buildings</td>
<td>5</td>
<td>11.4405</td>
</tr>
<tr>
<td>11.4422</td>
<td>Technology for Low-cost Housing</td>
<td>5</td>
<td>11.4406</td>
</tr>
<tr>
<td>11.4423</td>
<td>Rationalized Building Systems</td>
<td>5</td>
<td>11.4406</td>
</tr>
<tr>
<td>11.4424</td>
<td>Const. Planning &amp; Management</td>
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<td>11.4405, 11.4407, 11.4408</td>
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<tr>
<td>11.4430</td>
<td>Integration of Services</td>
<td>2</td>
<td>11.4407, 11.4408</td>
</tr>
<tr>
<td>11.4440</td>
<td>Building Materials A</td>
<td>2</td>
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<tr>
<td>11.4441</td>
<td>Building Materials B</td>
<td>3</td>
<td>11.4402, 11.4405</td>
</tr>
<tr>
<td>11.4450</td>
<td>Advanced Structural Analysis</td>
<td>4</td>
<td>11.4403, 11.4602</td>
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<td>11.4451</td>
<td>Advanced Structural Design</td>
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<td>11.4403, 11.4602</td>
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<tr>
<td>11.4452</td>
<td>Models Analysis &amp; Form-finding</td>
<td>3</td>
<td>11.4403</td>
</tr>
<tr>
<td>11.4453</td>
<td>Surface &amp; Spatial Structures A</td>
<td>3</td>
<td>11.4320, 11.4404</td>
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<tr>
<td>11.4454</td>
<td>Surface &amp; Spatial Structures B</td>
<td>2</td>
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</tr>
<tr>
<td>11.4455</td>
<td>Technology Research A</td>
<td>5</td>
<td>156 credit points and 11.4405 or 11.4406</td>
</tr>
<tr>
<td>11.4456</td>
<td>Technology Research B</td>
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### Practice

#### Core Subjects

<table>
<thead>
<tr>
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<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4501</td>
<td>Practice &amp; Management I</td>
<td>2</td>
<td>nil</td>
</tr>
<tr>
<td>11.4502</td>
<td>Practice &amp; Management II</td>
<td>2</td>
<td>11.4501</td>
</tr>
<tr>
<td>11.4503</td>
<td>Specifications &amp; Building Economics</td>
<td>3</td>
<td>11.4502</td>
</tr>
</tbody>
</table>
### 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>11.4504</td>
<td>Building Contracts</td>
<td>2</td>
<td>11.4503</td>
</tr>
<tr>
<td>11.4505</td>
<td>Contract Administration</td>
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<td>11.4504</td>
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#### 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>11.4505</td>
</tr>
<tr>
<td>11.4521</td>
<td>Documentation</td>
<td>3</td>
<td>11.4503</td>
</tr>
<tr>
<td>11.4522</td>
<td>Building Economics &amp; Development</td>
<td>3</td>
<td>11.4503</td>
</tr>
<tr>
<td>11.4523</td>
<td>Management for Architects</td>
<td>2</td>
<td>11.4505</td>
</tr>
<tr>
<td>11.4524</td>
<td>The Architect and the Law</td>
<td>2</td>
<td>11.4505</td>
</tr>
<tr>
<td>11.4525</td>
<td>Project Management</td>
<td>3</td>
<td>11.4505</td>
</tr>
<tr>
<td>11.4526</td>
<td>Industrial Relations</td>
<td>2</td>
<td>11.4522</td>
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</table>

### Communication

#### Core Subjects

<table>
<thead>
<tr>
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<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4601</td>
<td>Introduction to Communication</td>
<td>6</td>
<td>nil</td>
</tr>
<tr>
<td>11.4602</td>
<td>Introduction to Computing</td>
<td>2</td>
<td>nil</td>
</tr>
<tr>
<td>11.4603</td>
<td>Graphic Communication</td>
<td>5</td>
<td>nil</td>
</tr>
<tr>
<td>11.4604</td>
<td>Graphic Art</td>
<td>4</td>
<td>11.4601</td>
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#### Elective Subjects

<table>
<thead>
<tr>
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<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</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>11.4601, 11.4603</td>
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<tr>
<td>11.4628</td>
<td>Aspects of Style in Art</td>
<td>4</td>
<td>11.4604</td>
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### Other Required Studies

#### BSC(Arch) Degree

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4701</td>
<td>Graduation Project</td>
<td>8</td>
<td>130 credit points</td>
</tr>
<tr>
<td></td>
<td>General Studies Subjects</td>
<td>6</td>
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</table>

#### BArch Degree

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4702</td>
<td>Thesis</td>
<td>12</td>
<td>156 credit points</td>
</tr>
<tr>
<td>11.4703</td>
<td>Practical Experience</td>
<td>6</td>
<td>130 credit points</td>
</tr>
<tr>
<td></td>
<td>General Studies Subjects</td>
<td>12</td>
<td></td>
</tr>
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</table>

### Other Elective Studies

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.4704</td>
<td>Architectural Research</td>
<td>4</td>
<td>156 credit points</td>
</tr>
</tbody>
</table>
Section B

For Students who Commenced their Architectural Studies before 1978

Bachelor of Science (Architecture) Course

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

Students must apply to the Registrar to transfer from the part-time to full-time courses, or vice versa.

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

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

The holding of the degree of Bachelor of Science (Architecture), or its equivalent, is a requirement for selection into the Bachelor of Architecture course. It is also an eligible first degree for a number of other graduate courses offered by the University. (For summary see the Calendar, and for details see the appropriate Faculty Handbook.)

Bachelor of Architecture Course

Students wishing to apply for admission to the Bachelor of Architecture course must hold the degree of Bachelor of Science (Architecture) or approved equivalent qualification. Admission to the Bachelor of Architecture course is selective and is based on the ability revealed and the performance achieved up to the awarding of the Bachelor of Science (Architecture) degree. Selection is made according to a points score determined by a formula approved by the University Council and administered by the Bachelor of Architecture Admissions Committee of the Faculty of Architecture. It should be noted that possession of a BSc(Arch) degree does not automatically ensure admission to the BArch course.

While the first year of the course requires no formal attendance at the University, students are required to enrol in the normal manner. In this period the student is required to obtain practical experience (see 'Practical Experience' below). Students who whilst in the Bachelor of Science (Architecture) course have satisfactorily completed three years of part-time study and have obtained approved practical experience during the whole of the period of part-time attendance shall not be required to complete the first year of the Bachelor of Architecture degree course. On satisfactory completion of the course the student is awarded the degree of Bachelor of Architecture.

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

Practical Experience

Students who have obtained approved practical experience for the full duration of at least three years of part-time study may, subject to the approval of the Bachelor of Architecture Admissions Committee, be exempted from the first year of the Bachelor of Architecture degree course.

Honours

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

Registration and Professional Recognition

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

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

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

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

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

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

#### Year 1*

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Stage 1A</th>
<th>Stage 1B</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.111</td>
<td>Design I</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>11.121</td>
<td>History of Architecture I</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>11.131</td>
<td>Graphic Communication I</td>
<td>9</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11.1311</td>
<td>Graphic Communication 1A</td>
<td>0</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>11.1312</td>
<td>Graphic Communication 1B</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>11.211</td>
<td>Construction I</td>
<td>5</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>11.221</td>
<td>Structures I</td>
<td>3</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>11.271</td>
<td>Architectural Science I</td>
<td>9</td>
<td>0</td>
<td>0</td>
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<tr>
<td>11.2711</td>
<td>Architectural Science 1A</td>
<td>0</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>11.2712</td>
<td>Architectural Science 1B</td>
<td>0</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>28</td>
<td>13</td>
<td>13</td>
</tr>
</tbody>
</table>

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

* In 1978 Year 1 subjects are offered only to:
1. Full-time and part-time students who are required to repeat one or more Year 1 subjects.
2. Part-time students who have completed Stage 1A and who are progressing to Stage 1B in 1978.

#### Year 2

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Stage 2A</th>
<th>Stage 2B</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.112</td>
<td>Design II</td>
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<tr>
<td>11.122</td>
<td>History of Architecture II</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>11.132</td>
<td>Graphic Communication II</td>
<td>6</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>11.212</td>
<td>Construction II</td>
<td>6</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>11.222</td>
<td>Structures II</td>
<td>3½</td>
<td>3½</td>
<td>0</td>
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<tr>
<td>11.272</td>
<td>Architectural Science II</td>
<td>2</td>
<td>2</td>
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<tr>
<td></td>
<td>General Studies Elective</td>
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<td>1½</td>
<td>0</td>
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<td></td>
<td></td>
<td>27</td>
<td>13</td>
<td>14</td>
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</table>

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

#### Year 3

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Stage 3A</th>
<th>Stage 3B</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.113</td>
<td>Design III</td>
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<td>7</td>
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<tr>
<td>11.123</td>
<td>History of Architecture III</td>
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<td>0</td>
<td>1</td>
</tr>
<tr>
<td>11.133</td>
<td>Graphic Communication III</td>
<td>3</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>11.213</td>
<td>Construction III</td>
<td>8</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11.2131</td>
<td>Construction IIIA</td>
<td>0</td>
<td>5</td>
<td>0</td>
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<tr>
<td>11.2132</td>
<td>Construction IIIB</td>
<td>0</td>
<td>0</td>
<td>3</td>
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</table>

The schedule shows the number of hours per week for each subject under full-time and part-time programs. The prerequisites for each subject are also listed.
Schedule of Subjects (continued)

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Stage 3A</th>
<th>Stage 3B</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>11.223</td>
<td>Structures III</td>
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<td>3</td>
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<td>11.273</td>
<td>Architectural Science III</td>
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<td>2½</td>
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<tr>
<td>11.331</td>
<td>Estimating and Specifications</td>
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<td>1</td>
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<tr>
<td></td>
<td>General Studies Elective</td>
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<td>1½</td>
<td>nil</td>
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<tr>
<td></td>
<td></td>
<td>27</td>
<td>13½</td>
<td>13½</td>
</tr>
</tbody>
</table>

Department of Graduate Studies

330

Bachelor of Architecture Course
Bachelor of Architecture BArch

Schedule of Subjects

Year 1

11.500  Practical Experience*

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

Year 2

<table>
<thead>
<tr>
<th>Hpw</th>
<th>S1</th>
<th>S2</th>
<th>Prerequisite</th>
</tr>
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<tbody>
<tr>
<td>11.151</td>
<td>Architecture A</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Electives†</td>
<td>5½</td>
<td>5½</td>
</tr>
<tr>
<td>11.171A</td>
<td>Thesis‡</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>36.411</td>
<td>Town Planning</td>
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<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>23½</td>
<td>21½</td>
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</table>

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

A

<table>
<thead>
<tr>
<th>Hours per week</th>
<th>S1</th>
<th>S2</th>
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<tbody>
<tr>
<td>11.2241 Structures A1</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>11.2242 Structures A2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>11.226 Properties of Materials</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>11.227 Behaviour of Materials</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>11.228 Earth Construction A2</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>11.229 Earth Construction A2</td>
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<td>3</td>
</tr>
<tr>
<td>11.8111 Theory of Architecture A1</td>
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<tr>
<td>11.8112 Theory of Architecture A2</td>
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<td>2</td>
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<tr>
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Degree Course in Landscape Architecture

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, 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 25 hours per week over eight sessions. The majority of subjects are specific, however contact with the students of other Schools within the Faculty and of other Faculties within the University is assured by the inclusion of subjects from the Schools of Architecture, Botany, Geography and Town Planning, and the Department of General Studies.

Practical Experience

Students of the undergraduate course must obtain a total of six months' practical experience prior to graduation of which a minimum of two months must be in a design office and a minimum of two months must be in outdoor work. This normally takes the form of employment during long vacations under a landscape architect, landscape contractor or nurseryman. Each student entering upon practical experience must obtain prior approval of the Professor of Landscape Architecture, and must obtain from the employer a statement of experience gained.

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.

Department of Landscape Architecture

338

Bachelor of Landscape Architecture Course

Bachelor of Landscape Architecture

BLArch

Schedule of Subjects

Session 1

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
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### Department of Landscape Architecture (continued)

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<td>Natural Communities*</td>
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Students may be required to participate in a practical construction program outside the metropolitan area, involving a field exercise of approximately two weeks' duration.

* The courses in Physical Environment, Plant Structure and Function, Natural Communities and Landscape Appreciation include a number of lectures and field trips for the purpose of practical observation. Field trips range from local trips within the metropolitan area to points as far afield as Moss Vale, Glenbrook and Gosford. The Faculty provides transport wherever possible, but in the majority of cases, students are expected to make their own transport arrangements for these trips.

**Session 3**

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### School of Building

#### Degree Course in Building

**BBuild**

**General Description of the Course**

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

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

**Credit Points**

To qualify for a Bachelor of Building Degree a student must have obtained a minimum of 192 credit points (including 130 credit points from compulsory subjects and 9 credit points of General Studies). Credit points are allocated to all compulsory and elective subjects.

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

**Practical Experience**

Students are required to be in employment related to their course during at least six months of their program. The proposal for employment must be submitted to the Professor of Building for approval. See Subject Descriptions for details.

**Award of Honours**

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

**Professional Recognition**

The award of the degree, Bachelor of Building, is recognized for admission to membership by the Australian Institute of Building and the Australian Institute of Quantity Surveyors.
333

Bachelor of Building Degree Course

Bachelor of Building

BBuild

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

<table>
<thead>
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**Building Degree Course (continued)**

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<td>35.880</td>
<td>Development Project</td>
<td>4</td>
<td>35.504, 35.890</td>
</tr>
<tr>
<td>35.890</td>
<td>Property Valuation</td>
<td>2</td>
<td>35.503</td>
</tr>
<tr>
<td></td>
<td><strong>Others</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Compulsory Subjects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>35.900</td>
<td>Thesis</td>
<td>10</td>
<td>100 credit points</td>
</tr>
<tr>
<td>35.910</td>
<td>Industry Semester*</td>
<td>3</td>
<td>35.503, 35.702</td>
</tr>
<tr>
<td></td>
<td>General Studies</td>
<td>3 each</td>
<td>nil</td>
</tr>
<tr>
<td>* This subject should not be taken in final semester.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Three General Studies subjects are compulsory and are to be selected from the list of General Studies Electives available.*
School of Town Planning

Degree Course in Town Planning
BTP

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

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

General Description of the Course

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

The course leads to the 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, on the basis of quality of performance throughout the whole course, with particular emphasis on the later years and in accordance with current Faculty regulations.

Professional Recognition

The course is recognized by the Royal Australian Planning Institute as an academic qualification for corporate membership. The Institute requires that for corporate membership graduates must also have at least one year of practical experience subsequent to graduation.
### Year 3

#### Session 1
- 36.515 Planning of Towns 12 36.514
- 36.474 Planning Administration 2
- 36.438 Urban Government 2
- 29.431 Surveying and Cartography 4
- General Studies Elective 3

#### Session 2
- 36.503 Practical Experience 3

### Year 4

#### Session 1
- 36.503 Practical Experience 3

#### Session 2
- 36.516 Metropolitan Planning 12 36.515
- 36.521 Research Methodology 6
- 15.901 Economics for Town Planners 2

### Year 5

#### Session 1
- 36.517 Regional Planning 16 36.516
- 53.321 Urban Sociology 2
- 36.491 Thesis 2
- 36.437 Civic Survey Camp 2

#### Session 2
- 36.491 Thesis 15
- 36.482 Land Valuation 2
- 36.440 Planning Elective 3

### Extension Courses

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

Faculty of Architecture
Graduate Enrolment Procedures

All students enrolling in graduate courses should obtain a copy of the free booklet Enrolment Procedures 1978 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 degree of Master of Architecture, Master of Building, Master of Landscape Architecture or Master of Town Planning. Facilities are also available for research towards the degree of Doctor of Philosophy. For details concerning this degree see Conditions for the Award of Higher Degrees later in this Handbook or write to the Dean.

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

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

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

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

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

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

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

Duration

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

School of Architecture

810

Master of Science (Acoustics)
MSc(Acoustics)

This course provides for graduate study in several important aspects of acoustics, eg noise control in buildings, community noise control, auditorium design, machine, ventilation and air conditioning noise control, and acoustical systems and structures. It is designed for graduates in architecture, engineering or science who wish to specialize in acoustics, and is suitable for those who wish to practise as consultants or to find employment in industry, research establishments or in larger architectural and engineering offices.

Admission Requirements

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

1. A candidate for admission holding the degree of Bachelor of Science (Architecture) or Bachelor of Science (Pass Degree) of the University of New South Wales or equivalent qualification will be required to complete a preparatory year before admission to the course. Generally candidates from architecture faculties will be required to complete the qualifying subjects marked * and candidates from science faculties will be required to complete the qualifying subjects marked †.

2. A candidate for admission holding the degree of Bachelor of Architecture, Bachelor of Building, Bachelor of Engineering or Bachelor of Science (Honours) of the University of New South Wales or equivalent qualification may be required to complete certain qualifying subjects as co-requisites. Generally candidates from architecture faculties will be required to complete the qualifying subjects marked * and candidates from engineering and science faculties will be required to complete the qualifying subjects marked † unless they have already studied similar topics in their first degree courses.

Course Structure

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>L.</td>
<td>T.</td>
</tr>
<tr>
<td>1.917G Vibration and Wave Theory I*</td>
<td>3</td>
</tr>
<tr>
<td>1.967G Vibration and Wave Theory II*</td>
<td>0</td>
</tr>
<tr>
<td>1.987G Measurement Techniques</td>
<td>1</td>
</tr>
<tr>
<td>11.990G Construction, Contracts and</td>
<td>3</td>
</tr>
<tr>
<td>Documentation I†</td>
<td></td>
</tr>
<tr>
<td>11.991G Construction, Contracts and</td>
<td>0</td>
</tr>
<tr>
<td>Documentation II†</td>
<td></td>
</tr>
<tr>
<td>35.360G Computer Techniques†</td>
<td>3</td>
</tr>
</tbody>
</table>

* Candidates holding the degree of BSc (Architecture) are required to complete these subjects.
† Candidates from Science Faculties are required to complete these subjects unless they have already studied similar topics in their first degree course.

Year 1

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.927G Acoustic Theory</td>
<td>2</td>
</tr>
<tr>
<td>1.937G Acoustic Measuring Systems</td>
<td>1</td>
</tr>
<tr>
<td>1.977G Electro-acoustics</td>
<td>0</td>
</tr>
<tr>
<td>1.957G Acoustic Laboratory and Analysis</td>
<td>0</td>
</tr>
<tr>
<td>11.651G Mechanical Noise Sources</td>
<td>2</td>
</tr>
<tr>
<td>11.992G Acoustics of Speech and Music</td>
<td>1</td>
</tr>
<tr>
<td>11.993G The Ear and Hearing</td>
<td>1</td>
</tr>
<tr>
<td>11.994G Hearing Conservation</td>
<td>0</td>
</tr>
<tr>
<td>11.995G Community Noise</td>
<td>0</td>
</tr>
</tbody>
</table>

| Total | 7 | 9 |
Year 2*

<table>
<thead>
<tr>
<th>Course</th>
<th>Hpw</th>
<th>L.</th>
<th>T.</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.996G Graduate Project (equivalent hours)</td>
<td></td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Electives*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.947G Advanced Physical Acoustics</td>
<td>4</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>5.652G Noise Suppression Techniques</td>
<td>4</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>11.997G Auditorium Acoustics</td>
<td>4</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>11.998G Airborne &amp; Impact Noise Control in Buildings</td>
<td>0</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>11.999G Advanced Acoustics of Speech and Music</td>
<td>0</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

* See Course Structure above.

521
Landscape Design Graduate Diploma Course*
GradDip

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

Admission Requirements

An applicant for admission to the Landscape Design course shall be:

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.

Year 1—Part-Time

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.910G History of Landscape Design</td>
<td>S1</td>
</tr>
<tr>
<td>11.912G Landscape Engineering</td>
<td>2</td>
</tr>
<tr>
<td>27.294 Physical Geography for Town Planners</td>
<td>0</td>
</tr>
<tr>
<td>43.215G Plant Biology</td>
<td>1</td>
</tr>
<tr>
<td>43.216G Ecology and Systematics</td>
<td>0</td>
</tr>
</tbody>
</table>

School of Building

The Degree of Master of Science (Building)

811
Master of Science (Building)
MSc(Building)

This four-session part-time course has been designed to provide opportunities for advanced study in the science of construction and building services. It allows a certain amount of specialization in four inter-related areas:

1. planning and management aspects of a design or construction organization, including programming, evaluation, costing, performance feedback, feasibility, and the valuation and management of properties;
2. operations and control aspects of a design or construction organization, concentrating on estimating and cost analysis, contract or design administration and construction techniques;
3. problems concerned with thermal conditions, illumination, noise, humidity and air purity; the interrelation of the building envelope and structure with the services and the performance of the building as a whole;
4. development and research aspects of construction with relevance to design, construction, product manufacture or research.

Admission Requirements

The general conditions governing registration as a candidate for the degree Master of Science (Building) are
given later in this Handbook but the attention of intending applicants is directed to the following specific requirements:

1. Applicants will have been admitted to the degree of Bachelor of Architecture or Bachelor of Building in the University of New South Wales or an equivalent degree in another approved university.

2. Graduates with a Bachelor of Engineering who have worked in the building industry may be admitted to the preparatory year or to the course proper depending on the individual case.

3. Applicants who have been admitted to the degree of Bachelor of Science (Architecture) at the University of New South Wales, or an equivalent degree in another approved university, will be required to complete those preparatory subjects listed below.

4. Eligible applicants other than those under 1., 2. & 3. may be required to complete a program of preparatory subjects set out by the Higher Degree Committee of the Faculty of Architecture, whose decision will be influenced by the education and experience of each applicant.

Graduate experience and involvement in the building industry is considered an advantage in the selection of candidates.

Preparatory Subjects for Bachelor of Science (Architecture) Graduates

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.001 Introduction to Accounting A</td>
<td>4</td>
</tr>
<tr>
<td>14.051 Law for Builders I</td>
<td>2</td>
</tr>
<tr>
<td>14.052 Law for Builders II</td>
<td>2</td>
</tr>
<tr>
<td>35.506 Construction VI</td>
<td>4</td>
</tr>
<tr>
<td>35.652 Services II</td>
<td>1</td>
</tr>
</tbody>
</table>

Course Structure

The Master of Science (Building) is a formal four-semester part-time course comprising 36 credit points. Each credit point consists of class contact of one hour for one semester, except for the Graduate Project which is rated at 7 credit points.

The subject program comprises studies in computations, environmental requirements, building economics, operations planning, contract law and documentation and the interaction of the architecture, the structure and the services.

Students may choose elective subjects from the list below to make up a minimum of 36 credit points including a Graduate Project of 7 credit points.

Subject to the approval of the appropriate Head of School, students may enrol in graduate subjects in other schools and faculties of the University to a maximum contributing total of 9 credit points.

With the approval of the Head of the School of Building, students may also enrol in undergraduate subjects. Undergraduate subjects are counted at half credit points to a maximum contributing total of 9 credit points. Qualifying or preparatory subjects cannot contribute towards the total.

Course Program

Subjects are offered on a four-semester cycle. While the intention is to offer as many subjects as possible, the full range may not be offered in any one year. Subjects will normally be time-tabled on one afternoon and evening, and one other evening each week.

Construction and Building Services

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.295G Construction Techniques</td>
<td>4</td>
</tr>
<tr>
<td>35.315G Construction Plant and Equipment</td>
<td>2</td>
</tr>
<tr>
<td>35.390G Building Structures and Services</td>
<td>2</td>
</tr>
<tr>
<td>35.425G Building Services</td>
<td>4</td>
</tr>
<tr>
<td>35.450G Energy Balance of Buildings</td>
<td>1</td>
</tr>
</tbody>
</table>

Building Science and Computations

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.345G Computer Applications</td>
<td>2</td>
</tr>
<tr>
<td>35.355G Computer Graphics</td>
<td>2</td>
</tr>
<tr>
<td>35.360G Computer Techniques</td>
<td>3</td>
</tr>
<tr>
<td>35.370G Experimental Techniques</td>
<td>2</td>
</tr>
<tr>
<td>35.380G Services and the Environment</td>
<td>3</td>
</tr>
</tbody>
</table>

Management Studies

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.210G Building Contracts &amp; Documentation</td>
<td>4</td>
</tr>
<tr>
<td>35.230G Operations Planning I</td>
<td>4</td>
</tr>
<tr>
<td>35.235G Operations Planning II</td>
<td>2</td>
</tr>
<tr>
<td>35.250G Office and Personnel Management</td>
<td>2</td>
</tr>
<tr>
<td>35.265G Management of the Design Process</td>
<td>2</td>
</tr>
<tr>
<td>35.275G Property Management</td>
<td>2</td>
</tr>
</tbody>
</table>

Building Economics

<table>
<thead>
<tr>
<th>Subject</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.330G Cost Planning and Analysis</td>
<td>2</td>
</tr>
<tr>
<td>35.400G Economics of Services</td>
<td>2</td>
</tr>
<tr>
<td>35.460G Applied Building Economics</td>
<td>2</td>
</tr>
<tr>
<td>35.470G Analysis and Valuation of Property</td>
<td>2</td>
</tr>
<tr>
<td>35.480G Managerial Economics in Building</td>
<td>2</td>
</tr>
<tr>
<td>35.240G Graduate Project*</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* This subject is compulsory.
School of Town Planning

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

520
Housing and Neighbourhood Planning
Graduate Diploma Course
GradDip

This course provides for 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

A candidate 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.

Year 1—Part-Time

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

Year 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>36.942G</td>
<td>Practice of Neighbourhood Planning III</td>
<td>4</td>
</tr>
<tr>
<td>36.943G</td>
<td>Practice of Neighbourhood Planning IV</td>
<td>4</td>
</tr>
</tbody>
</table>
Conditions for the Award of Higher Degrees

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

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

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

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

For the statements Preparation and Submission of Project Reports and Theses for Higher Degrees and Policy with respect to the use of Higher Degree Theses see the Calendar.

<table>
<thead>
<tr>
<th>Title</th>
<th>Abbreviation</th>
<th>Calendar/Handbook</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctor of Science</td>
<td>DSc</td>
<td>Calendar</td>
</tr>
<tr>
<td>Doctor of Letters</td>
<td>DLitt</td>
<td>Calendar</td>
</tr>
<tr>
<td>Doctor of Laws</td>
<td>LLD</td>
<td>Calendar</td>
</tr>
<tr>
<td>Doctor of Medicine in the Faculty of Medicine</td>
<td>MD</td>
<td>Calendar, Medicine</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>PhD</td>
<td>Calendar, and all faculties</td>
</tr>
<tr>
<td>Master of Applied Science</td>
<td>MAppSc</td>
<td>Applied Science</td>
</tr>
<tr>
<td>Master of Architecture</td>
<td>MArch</td>
<td>Architecture</td>
</tr>
</tbody>
</table>

*Not including General Studies Handbook.
<table>
<thead>
<tr>
<th>Title</th>
<th>Abbreviation</th>
<th>Calendar/Handbook</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Arts</td>
<td>MA(Hons)</td>
<td>Arts</td>
</tr>
<tr>
<td>Master of Arts</td>
<td>MA</td>
<td>Military Studies</td>
</tr>
<tr>
<td>Master of Engineering</td>
<td>ME</td>
<td>Professional Studies</td>
</tr>
<tr>
<td>Master of Engineering</td>
<td>MEngSc</td>
<td>Engineering</td>
</tr>
<tr>
<td>Master of Engineering Science</td>
<td>MGenStud</td>
<td>General Studies</td>
</tr>
<tr>
<td>Master of Health Administration</td>
<td>MHA</td>
<td>Professional Studies</td>
</tr>
<tr>
<td>Master of Health Personnel Education</td>
<td>MHPEd</td>
<td>Calendar†</td>
</tr>
<tr>
<td>Master of Health Planning</td>
<td>MHP</td>
<td>Professional Studies</td>
</tr>
<tr>
<td>Master of Landscape Architecture</td>
<td>MLArch</td>
<td>Architecture</td>
</tr>
<tr>
<td>Master of Laws by Research</td>
<td>LLM</td>
<td>Law</td>
</tr>
<tr>
<td>Master of Librarianship by Formal Course Work</td>
<td>MLib</td>
<td>Professional Studies</td>
</tr>
<tr>
<td>Master of Librarianship by Research</td>
<td>MLib</td>
<td>Sciences*</td>
</tr>
<tr>
<td>Master of Optometry</td>
<td>MOptom</td>
<td>Sciences*</td>
</tr>
<tr>
<td>Master of Physics</td>
<td>MPhysics</td>
<td>Sciences*</td>
</tr>
<tr>
<td>Master of Psychology</td>
<td>MPsychol</td>
<td>Sciences‡</td>
</tr>
<tr>
<td>Master of Public Administration</td>
<td>MPA</td>
<td>AGSM</td>
</tr>
<tr>
<td>Master of Science</td>
<td>MSc</td>
<td>Applied Science</td>
</tr>
<tr>
<td>Master of Science without Supervision</td>
<td>MSc</td>
<td>Engineering</td>
</tr>
<tr>
<td>Master of Science (Acoustics)</td>
<td>MSc(Acoustics)</td>
<td>Architecture</td>
</tr>
<tr>
<td>Master of Science and Society by Formal Course Work</td>
<td>MScSoc</td>
<td>Sciences*</td>
</tr>
<tr>
<td>Master of Science (Biology)</td>
<td>MSc(Biotech)</td>
<td>Sciences‡</td>
</tr>
<tr>
<td>Master of Science (Building)</td>
<td>MSc(Building)</td>
<td>Architecture</td>
</tr>
<tr>
<td>Master of Science (Building Services)</td>
<td>MSc(Building Services)</td>
<td>Architecture**</td>
</tr>
<tr>
<td>Master of Social Work by Research</td>
<td>MSW</td>
<td>Professional Studies</td>
</tr>
<tr>
<td>Master of Social Work by Formal Course Work</td>
<td>MSW</td>
<td>Sciences*</td>
</tr>
<tr>
<td>Master of Statistics</td>
<td>MStats</td>
<td>Sciences*</td>
</tr>
<tr>
<td>Master of Surgery</td>
<td>MS</td>
<td>Medicine</td>
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<tr>
<td>Master of Surveying</td>
<td>MSurv</td>
<td>Engineering</td>
</tr>
<tr>
<td>Master of Surveying without Supervision</td>
<td>MSurvSc</td>
<td>Engineering</td>
</tr>
<tr>
<td>Master of Surveying Science</td>
<td>MSurvSc</td>
<td>Architecture</td>
</tr>
<tr>
<td>Master of Town Planning</td>
<td>MTP</td>
<td>Architecture</td>
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1. The degree of Doctor of Philosophy may be granted by the Council on the recommendation of the Professorial Board to a candidate who has made an original and significant contribution to knowledge and who has satisfied the following requirements:

2. A candidate for registration for the degree of Doctor of Philosophy shall:
   (1) hold an honours degree from the University of New South Wales; or
   (2) hold an honours degree of equivalent standing from another approved university; or
   (3) if he holds a degree without honours from the University of New South Wales or other approved university, have achieved by subsequent work and study a standard recognized by the appropriate Faculty or Board of Studies as equivalent to honours; or
   (4) in exceptional cases, submit such other evidence of general and professional qualifications as may be approved by the Professorial Board on the recommendation of the Faculty or Board of Studies.

3. When the Faculty or Board of Studies is not satisfied with the qualifications submitted by a candidate, the Faculty or Board of Studies may require him, before he is permitted to register, to undergo such examination or carry out such work as the Faculty or Board of Studies may prescribe.

4. A candidate for registration for a course of study leading to the degree of Doctor of Philosophy shall:
   (1) apply to the Registrar on the prescribed form at least one calendar month before the commencement of the session in which he desires to register; and
   (2) submit with his application a certificate from the head of the University school in which he proposes to study stating that the candidate is a fit person to undertake a course of study and research leading to the degree of Doctor of Philosophy and that the school is willing to undertake the responsibility of supervising the work of the candidate and of reporting to the Faculty or Board of Studies at the end of the course on the merits of the candidate's performance in the prescribed course.

5. Subsequent to registration the candidate shall pursue a program of advanced study and research for at least six academic sessions, save that:
   (1) a candidate fully engaged in advanced study and research for his degree, who before registration was engaged upon research to the satisfaction of the Faculty or Board of Studies, may be exempted from not more than two academic sessions;
   (2) in special circumstances the Faculty or Board of Studies may grant permission for the candidate to spend not more than one calendar year of his program in advanced study and research at another institution provided that his work can be supervised in a manner satisfactory to the Faculty or Board of Studies;
(3) In exceptional cases, the Professorial Board on the recommendation of the Faculty or Board of Studies may grant permission for a candidate to be exempted from not more than two academic sessions.

6. A candidate who is fully engaged in research for the degree shall present himself for examination not later than ten academic sessions from the date of his registration. A candidate not fully engaged in research shall present himself for examination not later than twelve academic sessions from the date of his registration. In special cases an extension of these times may be granted by the Faculty or Board of Studies.

7. The candidate shall be required to devote his whole time to advanced study and research, save that:

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

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

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

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

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

10. A candidate may be required by the Faculty or Board of Studies to attend a formal course of study appropriate to his work.

Thesis

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

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

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

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

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

12. The thesis must present the candidate’s own account of his research. In special cases work done conjointly with other persons may be accepted, provided the Faculty or Board of Studies is satisfied on the candidate’s part in the joint research.
13. Every candidate shall be required to submit with his thesis a short abstract of the thesis comprising not more than 600 words.

The abstract shall indicate:
(1) the problem investigated;
(2) the procedures followed;
(3) the general results obtained;
(4) the major conclusions reached;
but shall not contain any illustrative matter, such as tables, graphs or charts.

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

15. The candidate shall give in writing two months' notice of his intention to submit his thesis and such notice shall be accompanied by the appropriate fee.

16. Four copies of the thesis shall be submitted together with a certificate from the supervisor that the candidate has completed the course of study prescribed in his case. The four copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses.* The candidate may also submit any work he has published whether or not such work is related to the thesis.

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

18. There shall normally be three examiners of the thesis, appointed by the Professorial Board on the recommendation of the Faculty or Board of Studies, at least one of whom shall be an external examiner.

19. After examining the thesis the examiners may:
(1) decide that the thesis reaches a satisfactory standard; or
(2) recommend that the candidate be required to re-submit his thesis in revised form after a further period of study and/or research; or
(3) recommend without further test that the candidate be not awarded the degree of Doctor of Philosophy.

20. If the thesis reaches the required standard, the examiners shall arrange for the candidate to be examined orally, and, at their discretion, by written papers and/or practical examinations on the subject of the thesis and/or subjects relevant thereto, save that on the recommendation of the examiners the Faculty or Board of Studies may dispense with the oral examination.

21. If the thesis is of satisfactory standard but the candidate fails to satisfy the examiners at the oral or other examinations, the examiners may recommend the University to permit the candidate to represent the same thesis and submit to a further oral, practical or written examination within a period specified by them but not exceeding eighteen months.

22. At the conclusion of the examination, the examiners will submit to the Faculty or Board of Studies a concise report on the merits of the thesis and on the examination results, and the Faculty or Board of Studies shall recommend whether or not the candidate may be admitted to the degree.

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

*See Conditions for the Award of Degrees In the Calendar.
1. An application to register as a candidate for the degree of Master of Architecture shall be made on the prescribed form which shall be lodged with the Registrar at least one full calendar month before the commencement of the session in which the candidate desires to register.

2. (1) An applicant for registration shall have been admitted to the degree of Bachelor of Architecture in the University of New South Wales, or other approved university.
   (2) In special circumstances a person may be permitted to register as a candidate for the degree if he submits evidence of such academic and professional attainments as may be approved by the Faculty of Architecture (hereinafter referred to as 'the Faculty') on the recommendation of its Higher Degree Committee.

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

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

5. An approved applicant shall register in one of the following categories:
   (1) student in full-time attendance at the University;
   (2) student in part-time attendance at the University;
   (3) student working externally to the University;
   and shall pay such fees as may be determined from time to time by the Council.

6. 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, three copies of which shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degrees theses.* The candidate may submit also for examination any work he has published, whether or not such work is related to the thesis.

7. 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.

8. The investigation, design and other work as provided in paragraph 6 shall be carried out under the direction of a supervisor appointed by the Faculty or under such conditions as the Faculty may determine.

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

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

*See Conditions for the Award of Degrees in the Calendar.
1. An application to register as a candidate for the degree of Master of Building shall be made on the prescribed form which shall be lodged with the Registrar at least one full calendar month before the commencement of the session in which the candidate desires to register.

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

(2) In special circumstances a person may be permitted to register as a candidate for the degree if he submits evidence of such academic and professional attainments as may be approved by the Faculty of Architecture (hereinafter referred to as 'the Faculty') on the recommendation of its Higher Degree Committee.

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

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

5. An approved applicant shall register in one of the following categories:

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

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

(3) student working externally to the University;

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

6. 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 building, three copies of which shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses.* The candidate may submit also for examination any work he has published, whether or not such work is related to the thesis.

7. 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.

8. The investigation, design and other work as provided in paragraph 6, shall be carried out under the direction of a supervisor appointed by the Faculty or under such conditions as the Faculty may determine.

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

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

*See Conditions for the Award of Degrees in the Calendar.
Master of Landscape Architecture (MLArch)

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

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

(2) In special circumstances a person may be permitted to register as a candidate for the degree if he submits evidence of such academic and professional attainments as may be approved by the Faculty of Architecture (hereinafter referred to as 'the Faculty') on the recommendation of its Higher Degree Committee.

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

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

5. An approved applicant shall register in one of the following categories:

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

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

(3) student working externally to the University;

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

6. 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 Landscape Architecture, three copies of which shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses.* The candidate may submit also for examination any work he has published, whether or not such work is related to the thesis.

7. 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.

8. The investigation, design and other work as provided in paragraph 6. shall be carried out under the direction of a supervisor appointed by the Faculty or under such conditions as the Faculty may determine.

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

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

*See Conditions for the Award of Degrees in the Calendar.
1. The degree of Master of Science (Acoustics) may be awarded by the Council on the 
recommendation of the Professorial Board to a candidate who has satisfactorily completed 
a program of advanced study comprising formal course work and including the sub-
mission of a report on a project approved by the Higher Degree Committee of the Faculty 
of Architecture.

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

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

(3) Notwithstanding any other provisions of these conditions the Higher Degree Committee 
of the Faculty of Architecture may require an applicant to demonstrate fitness for regis-
tration by carrying out such work and sitting for such examinations as the Higher 
Degree Committee of the Faculty of Architecture may determine.

3. (1) An application to register as a candidate for the degree of Master shall be made 
on the prescribed form which shall be lodged with the Registrar at least six (6) weeks 
before the commencement of the course.

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

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

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

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

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

(3) (a) The report shall be examined by two examiners appointed by the Higher Degree 
Committee of the Faculty of Architecture.

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

5. Consequent upon consideration of the examiners’ reports, and the candidate’s other 
results in the prescribed course of study, the Higher Degree Committee of the Faculty of 
Architecture shall recommend to the Professorial Board whether the candidate may be 
admitted to the degree.

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

1. The degree of Master of Science (Building Services) may be awarded by the Council on the recommendation of the Professorial Board to a candidate who has satisfactorily completed a program of advanced study comprising formal course work and including the submission of a report on a project approved by the Higher Degree Committee of the Faculty of Architecture, hereinafter referred to as 'the Committee'.

#### Qualifications

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

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

   (3) Notwithstanding any other provisions of these conditions the Committee may require an applicant to demonstrate fitness for registration by completing a qualifying program as determined by the Committee.

#### Registration

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

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

   (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 terminate candidature or take such other action as it considers appropriate.

   (4) The course is offered on a part-time basis only. Normally, a part-time candidate shall not be considered for the award of the degree until the lapse of four sessions from the date of registration. The maximum period of candidature shall be 6 academic sessions for a part-time student. In special cases an extension of time may be granted by the Committee.

#### Project

4. (1) Where specified, a report on a project approved by the Committee may be submitted at, or before, the completion of the formal section of the course but, unless exceptional circumstances prevail, shall be submitted not later than one session after completion of the course.

   (2) The format of the report shall accord with the instructions of the School and shall comply with the requirements of the University for the submission of project reports as stated elsewhere in the Calendar.

   (3) The examination of the project will be conducted by the Committee which will appoint two examiners who shall advise the Committee that the report is:

   (a) very satisfactory;

   (b) satisfactory;

   (c) satisfactory subject to minor corrections as listed being made to the satisfaction of the Head of School;

   (d) not satisfactory but may be re-submitted in a revised form;

   (e) not satisfactory and may not be re-submitted in a revised form.

   (4) In considering a recommendation made in terms of (d) of sub-condition (3) of this condition, the Committee may specify the period within which the report is to be re-submitted.

#### Recommendation for Admission to Degree

5. The Committee, after considering the candidate's work in the prescribed course of study, shall recommend to the Professorial Board whether or not the candidate should be admitted to the degree.

#### Fees

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

   *Not available to new students.
1. The degree of Master of Science (Building) may be awarded by Council on the recommendation of the Professorial Board to a candidate who has satisfactorily completed a program of advanced study comprising formal course work and including the submission of a report on a project approved by the Higher Degree Committee of the Faculty of Architecture.

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

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

(3) Notwithstanding any other provisions of these conditions the Higher Degree Committee of the Faculty 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 may determine.

3. (1) An application to register as a candidate for the degree of Master shall be made on the prescribed form which shall be lodged with the Registrar at least six (6) weeks before the commencement of the course.

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

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

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

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

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

(3) (a) The report shall be examined by two examiners appointed by the Higher Degree Committee of the Faculty.

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

5. Consequent upon consideration of the examiners' reports, where appropriate, and the candidate's other results in the prescribed course of study, the Higher Degree Committee of the Faculty shall recommend to the Professorial Board whether the candidate may be admitted to the degree.

6. An approved candidate shall pay such fees as may be determined from time to time by the Council.
1. An application to register as a candidate for the degree of Master of Town Planning shall be made on the prescribed form which shall be lodged with the Registrar at least one full calendar month before the commencement of the session in which the candidate desires to register.

2. (1) An applicant for registration shall have been admitted to the Degree of Bachelor of Town Planning in the University of New South Wales, or to a Bachelor’s degree in Town or Regional Planning of an approved university.

(2) In special circumstances a person may be permitted to register as a candidate for the degree if he submits evidence of such academic and professional attainments as may be approved by the Faculty of Architecture (hereinafter referred to as ‘the Faculty’) on the recommendation of its Higher Degree Committee.

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

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

5. An approved applicant shall register in one of the following categories:
   (1) student in full-time attendance at the University;
   (2) student in part-time attendance at the University;
   (3) student working externally to the University;

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

6. 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 Town or Regional Planning, three copies of which shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses.* The candidate may submit also for examination any work he has published, whether or not such work is related to the thesis.

7. 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.

8. The investigation, design and other work as provided in paragraph 6. shall be carried out under the direction of a supervisor appointed by the Faculty or under such conditions as the Faculty may determine.

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

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

*See Conditions for the Award of Degrees in the Calendar.
1. An application for admission to a graduate diploma course shall be made on the prescribed form which should be lodged with the Registrar at least two full calendar months before the commencement of the course.

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

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

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

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

Subject Descriptions

Identification of Subjects by Numbers

Each of the subjects taught in the University is identifiable both by number and by name. This is a fail-safe measure at the points of enrolment and examination against a student nominating a subject other than the one intended. Subject numbers are allocated by the Assistant Registrar, Examinations and Student Records, and the system of allocation is:

1. The School offering a subject is indicated by the number before the decimal point;

2. If a subject is offered by a Department within a School, the first number after the decimal point identifies that Department;

3. The position of a subject in a sequence is indicated by the third number after the decimal point. For example, 2 would indicate that the subject is the second in a sequence of subjects;

4. Graduate subjects are indicated by the suffix G.

As indicated above, a subject number is required to identify each subject in which a student is to be enrolled and for which a result is to be returned. Where students may take electives within a subject, they should desirably be enrolled initially in the particular elective, and the subject numbers allotted should clearly indicate the elective. Where it is not possible for a student to decide on an elective when enrolling or re-enrolling, and separate examinations are to be held in the electives, Schools should provide to the Examinations and Student Records Section in April (Session 1) and August (Session 2) the names of students taking each elective. Details of the actual dates in April and August are set out in the Calendar of Dates earlier in this volume.

Those subjects taught in each Faculty are listed in full in the handbook of that Faculty, in the section entitled Subject Descriptions.

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

The identifying numbers for each School are set out below.

Information Key

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

continued next page
<table>
<thead>
<tr>
<th>School, Department etc</th>
<th>Faculty</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>*Subjects also offered for courses in this Handbook</td>
<td></td>
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School of Physics

Undergraduate Study

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


Graduate Study

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

1.917G Vibration and Wave Theory I S1 L2T1
For MSc(Acoustics) students.
Simple oscillator, damped oscillator, ordinary differential equations, complex numbers, forced vibrations and resonance, coupled oscillators. Plane waves, interference and diffraction.

1.927G Acoustic Theory S2 L1½ T½
For MSc(Acoustics) students.
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.

1.937G Acoustic Measuring System S1 L1T0
For MSc(Acoustics) students.
Microphones, amplifiers, loudspeakers, filters, recorders, pickups, noise generators. Acoustic measuring instruments.

School of Mechanical and Industrial Engineering

Graduate Study

5.652G Noise Suppression Techniques (Elective)
Noise reduction requirements; noise codes (industrial and community). Noise measurement methods and instruments; random noise, spectral analysis, microphone sensitivity, directivity, etc. Power determination. Ventilation system noise; excitation, propagation (cut-off, rotating modes, acoustic modes). Silencing techniques (splitters, absorbers); transmission and insertion loss; measurement; radiation into rooms. Jet flow noise.
School of Civil Engineering

Undergraduate Study

8.017 Transportation Engineering


School of Architecture

Undergraduate Study

Section A — Subjects in the Revised Courses

Architectural Design — General

11.4101 Principles of Design

4 credit points. Prerequisites: nil.

The meaning of design as the process of designation for a purpose. Selection, making, art.

The origin and cause of human aims in general. Motivations: need, desire, aspiration. Motivations affecting the field of architecture on the physical, mental and spiritual level.

Introduction to aim-possibility-act-fulfilment, the four cornerstones of the design process. The meaning and role of analysis in the understanding and exploration of the above. The relationship between possibility and act: the principle of successive limitation.

The design process and the physical and human context in which it is destined to fit.

Practical studio projects in problem-solving exercises in two and three dimensions taken from all the disciplines of the built environment.

11.4102 Design Theory I

5 credit points. Prerequisite: 11.4101.

Introduction to methodology, especially design methodology. Development in detail of methodical analysis and research applied to the comprehension of design aims, possibilities and acts. Introduction to complete design methods in general and expansive study of simple models followed by contemporary architects.

Practical studio projects to apply design methods in problem-solving exercises leading to simple architectural synthesis.

11.4103 Design Theory II

5 credit points. Prerequisites: 11.4102, 11.4201.

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 of problem types.

Investigation of human sciences techniques and their application to the design process. Introduction to computer-aided design and more complex design systems. Introduction to problems of anticipation, user-participation, evaluation, survey methods.

Practical studio projects apply various design processes to projects leading to architectural synthesis.

11.4120 Design Theory III

4 credit points. Prerequisite: 11.4103.

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

Practical application centres on selected case studies.

11.4121 Theory of Form

4 credit points. Prerequisite: 11.4103.

The ontological basis and the antinomical qualities of form in the causal sense, reflected in nature, art and architecture.

Practical investigation of the antinomical qualities of form with special emphasis on the brief and on the built fabric of contemporary architecture, and practical attempts to identify shortcomings and develop corrective measures.

11.4122 Theory of Architecture I

4 credit points. Prerequisite: 11.4120.

Theory of architectural synthesis: the sources of synthesis, the centre and field; the central "idea" as the cause of the order of priorities and connections between the elements of the synthesis. Discussion on the 'name-form, -idea, -shape' sequence. The concepts of prototypes, synergy, conflict-balance, limitation and economy in architectural synthesis. Introduction to ethics and aesthetics. Practical seminars and projects focus on selected case studies and specific themes.
11.4123 Theory of Architecture II
4 credit points. Prerequisite: 11.4122.
The relationship between the cosmic order and architecture. The order of space and time. Introduction to traditional symbolism and sacred architecture. The meaning of numbers, geometry, direction, enclosure, relation and proportion. Sacred architecture examined in detail in the Christian, Hindu, Buddhist and Islamic tradition. Practical seminars and projects focus on selected case studies and specific themes.

11.4124 Geometry and Design
4 credit points. Prerequisite: 11.4103.
Geometrical principles determining spatial order and their application to architecture. Practical study is given to various geometrical systems ranging from simple pragmatic to complex cultural considerations.

11.4125 Interior Design I
4 credit points. Prerequisites: nil.

11.4126 Interior Design II
4 credit points. Prerequisite: 11.4125.
The nature of the 'inside'. History of Interior Design. Perception of space; physical, mental, spiritual. The meaning of colour and shape. Colour psychology. Investigation of current interior design practice. Design studies applying current practice to a range of interior design situations.

11.4127 Design for Conservation
4 credit points. Prerequisite: 11.4328.
The development of the design of buildings and building types incorporating technological means for energy conservation and generation, recycling of waste, use of energy-efficient materials, maintaining ecological balance and developing suitable structural techniques.

11.4128 Computed Design Projects
6 credit points. Prerequisite: 11.4602.
The development of computable variables applicable to the physical requirements of buildings projects. The writing of programs and the application, in a comprehensive sense, of the program results to specific building design.

11.4129 Research and Survey Methods
4 credit points. Prerequisite: 11.4103.
Understanding the needs of users of buildings as well as those of the client. Regional and historical perspectives. Prognosis of future 'users'. Survey methods applied to user-research before and after the erection of the building. Practical exercises in user-research and survey.

11.4130 Criticism and Evaluation
4 credit points. Prerequisite: 11.4103.
The nature, function and value of criticism. Subjective and objective criticism. A short history of architectural criticism, architectural critics, past and present. Discrimination and values in a changing society; fashion; the influence of mass opinion, communication media, advertising, propaganda.
Collection of data; establishment and application of critical criteria; effective communication of conclusions; recommendations and feedback. The use of criticism and evaluation during and after the design process.
Practical evaluation of examples of architectural criticism, past and present. Criticism of contemporary buildings and projects. Criticism of current work by self and others.

11.4131 Principles of Dwellings
3 credit points. Prerequisites: 11.4102, 11.4201.
Examination of the different dwelling types and locational characteristics in the context of social, economic, political and legislative issues; the psycho-social aspects of dwelling types with reference to Australian traditions and experience; review of current practice and trends; demographic implications of socio-economic models; theoretical framework for the development of housing concepts; case studies and design exercises.

Architectural Design — Specific

11.4201 Living Unit
4 credit points. Prerequisites: nil.
Analysis of the immediate built environment, to develop an awareness of man's need for shelter, and a deeper understanding of his functions, activities and requirements. In-depth design of a single-cell living unit, including interiors and all elements which it comprises.

11.4211 Cultural Facilities I
6 credit points. Prerequisite: 11.4401.

11.4253 Cultural Facilities II
8 credit points. Prerequisites: 11.4103; one from 11.4221 to 11.4223; one from 11.4231 to 11.4234; 11.4407 and 11.4408.
Cultural attitudes in recent and contemporary Western Society. Cultural experience at participatory level in present-day society, and environmental requirements for small groups; overlaps with education and recreation in broadest sense.
Series I includes design of studios, workshops and craft centres; small libraries; facilities for performance to small audiences; small galleries and exhibition spaces.
Series II includes consideration of cultural activities at the regional, national and international levels. Culture, State and Society. Wider aspects of culture, and concerns for quality,
display, conservation and performance. Design studies includes auditoria for the performing arts; libraries and museums; art galleries; integrated educational and recreational facilities; exhibition complexes and conference centres.

11.4212 Commercial Facilities I
6 credit points. Prerequisite: 11.4401.

11.4231 Commercial Facilities II
6 credit points. Prerequisites: 11.4102, 11.4201, one from 11.4211 to 11.4214 and 11.4405.
The principles and nature of all aspects of commercial activity. Features common to all commercial buildings, as appropriate to specific commercial buildings. Determining factors, psychological motivations, and market operations. Economic, technological and urban requirements; people, goods and services.
Series I: the principles and design of small-scale commercial activity in a rural or suburban context.
Series II: larger scale commercial activity in the urban context.

11.4213 Health & Welfare Facilities I
6 credit points. Prerequisite: 11.4401.

11.4233 Health & Welfare Facilities II
6 credit points. Prerequisites: 11.4102, 11.4201, one from 11.4211 to 11.4214; and 11.4405.
Public health and welfare; social theory and practice; function of buildings for health and welfare of infants, children, adults and aged, including the afflicted, sick and handicapped. Social security, funding and legislation.
Series I: simple institutions in the suburban context with emphasis on special anthropometrics, site selection and social interaction.
Series II: more complex institutions in the urban context including housing for the aged, clinics and special facilities for the handicapped.

11.4213 Educational Facilities I
6 credit points. Prerequisite: 11.4401.

11.4251 Educational Facilities II
8 credit points. Prerequisites: 11.4103, one from 11.4221 to 11.4233, one from 11.4231 to 11.4234; 11.4407 and 11.4408.
The meaning of education; educational philosophies and their physical and architectural requirements. Child psychology, and psychology of play and learning.
Series I: case studies on child-minding centres, pre-school kindergartens, infant and primary schools, open and special schools.
Series II: case studies on secondary and tertiary educational institutions, universities, colleges of advanced education, technical, private and specialist colleges, and adult education centres.

11.4221 Detached Houses
6 credit points. Prerequisites: 11.4102, 11.4201, one from 11.4211 to 11.4214, and 11.4404.
Comprehensive awareness of family housing needs, and relation to natural environment, culminating in design of a family house to meet these needs. Historical development. Social, climatic, topographic and technological aspects; local and regional influences and international context. Case studies of significant examples of good design. Site and functional planning requirements; anthropometric, acoustic and visual parameters; community and privacy; development of brief between client/user/designer; growth, change and flexibility, construction, structure and services.

11.4222 Group Dwellings
6 credit points. Prerequisites: 11.4102, 11.4201, one from 11.4211 to 11.4214, and 11.4404.
Basic concepts of group housing, and analysis of user needs; advantages and disadvantages. Housing associations and community purposes. Case studies of selected examples. Design studies of simple groups in suburban and urban locations.

11.4223 Housing in Tropical, Sub-tropical and Arid Zones
6 credit points. Prerequisites: 11.4102, 11.4201, one from 11.4211 to 11.4214, and 11.4404.
Historical development of housing in tropical, sub-tropical and arid-zone conditions; traditional methods; indigenous forms; use of mechanical systems versus special design methods to combat heat, moisture, wind, etc; building materials and construction methods; structural systems and servicing. Case studies and design projects.

11.4232 Industrial Facilities
6 credit points. Prerequisites: 11.4102, 11.4201, one from 11.4211 to 11.4214, and 11.4405.
The principles and characteristics of industrial building design. History of the development of industrial building, current technology and design, and possible future developments. Planning of industrial estates. Design studies in development of industrial building types, ranging from simple projects to complex plants.

11.4234 Government Facilities I
6 credit points. Prerequisites: 11.4102, 11.4201, one from 11.4211 to 11.4214, and 11.4405.

11.4252 Government Facilities II
8 credit points. Prerequisites: 11.4103, one from 11.4221 to 11.4223, one from 11.4231 to 11.4234, 11.4407 and 11.4408.
Design of public buildings by or for government agencies. Client/user/architect relationship in development of brief. Public facilities, institutions, government office buildings, public services of quasi-industrial type etc for Federal, State...
and Municipal government, statutory bodies and government undertakings. Case studies and design projects. Series I deals with single buildings and groups, and Series II with more highly organized and complex building programs.

11.4241 Urban Housing
8 credit points. Prerequisites: 11.4103, one from 11.4221 to 11.4223, one from 11.4231 to 11.4234, and 11.4407.

The development of urban housing of differing densities; advantages and disadvantages; characteristics common to medium- and high-density living.

Determining factors: life styles and traditions, psychological motivations, economic, technological and urban requirements.

Functional factors: constructional solutions, cost analysis, funding and staging, servicing, alternative housing types, overseas developments and future trends.

Practical studies of urban housing design in the context of density, economics, social mix, amenity, urban planning, etc.

11.4242 Low-Cost Housing
6 credit points. Prerequisites: 11.4103, one from 11.4221 to 11.4223, one from 11.4231 to 11.4234, and 11.4407.

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

11.4243 Tourist Facilities
6 credit points. Prerequisites: 11.4103, one from 11.4221 to 11.4223, one from 11.4231 to 11.4234, and 11.4407.

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

11.4254 Urban Development
8 credit points. Prerequisites: 11.4103, one from 11.4221 to 11.4223, one from 11.4231 to 11.4234, 11.4302, 11.4407 and 11.4408.

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

11.4255 Recreational Facilities
8 credit points. Prerequisites: 11.4103, one from 11.4221 to 11.4223, one from 11.4231 to 11.4234, 11.4407 and 11.4408.

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

11.4256 Transport Buildings
8 credit points. Prerequisites: 11.4103, one from 11.4221 to 11.4223, one from 11.4231 to 11.4234, 11.4302, 11.4407 and 11.4408.

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

11.4257 Ecclesiastical Architecture
8 credit points. Prerequisites: 11.4103, 11.4123, one from 11.4221 to 11.4223, one from 11.4231 to 11.4234, 11.4407 and 11.4408.

The history, meaning and symbolism of Christian architecture as the image of Christian doctrine. The denominational differences in the emphasis of architectural layout. Ritual, functional and social requirements. Religious communities, their ideals, history, variety and pattern of life, with special emphasis on their architectural requirements.

Practical application in designing churches, ecclesiastical precincts and buildings for religious communities.

Architectural Environment

11.4301 Context of Architecture
5 credit points. Prerequisites: nil.

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

11.4302 Urbanism
2 credit points. Prerequisite: 11.4309.

The development of urban form and the role of architecture in urban design; civic architecture; growth and change; planning and design methodology. Case studies.

11.4303 Introduction to Architectural Science
4 credit points. Prerequisites: nil.

Environmental design methods for total human comfort; climate and its effects in and around buildings; geometry of sunlight, sun control; introduction to thermal, lighting and acoustical design; basic concepts, subjective appraisals and measurement. Laboratory work and projects.
Subject Descriptions

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

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

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

11.4307 World Architecture
3 credit points. Prerequisites: nil.
General treatment of the history of architecture from earliest times to the present; architecture as the built environment and the relationship of man and nature; influences of religion, society, culture, climate and technology. Seminars and projects.

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

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

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

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

11.4322 Solar Energy
2 credit points. Prerequisites: 11.4304, 11.4407.

11.4323 Room Acoustics
2 credit points. Prerequisite: 11.4306.

11.4324 Lighting Design
2 credit points. Prerequisite: 11.4305.
1. Major factors influencing design; current research in vision and visual conditions. 2. Lamps and lighting equipment. 3. Methodology in interior and exterior lighting design. 4. Colour and photometry. 5. Case studies.

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

11.4326 Acoustics Research
4 credit points. Prerequisite: 11.4306.
Experimental investigation and research in a selected aspect of acoustics. Laboratory and field work, methodology of results, development of techniques of application. Laboratory work.

11.4327 Lighting Research
4 credit points. Prerequisite: 11.4324.
Experimental investigation and research in an elected aspect of lighting design. Seminars: discussion of methodology of results, development of techniques of application. Laboratory work.
11.4328 Appropriate Technology
2 credit points. Prerequisites: 11.4301, 11.4303.

11.4330 Modern Architecture
2 credit points. Prerequisite: 11.4308.

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

11.4332 Historical Research A
3 credit points. Prerequisite: 11.4309. 145 credit points.

11.4333 Historical Research B
3 credit points.

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

All three electives must be taken to gain credit and desirably the three electives should be taken concurrently with 11.4702 Thesis.

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

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

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

11.4342 Transport Systems
4 credit points. Prerequisite: 11.4302.
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
4 credit points. Prerequisite: 11.4302.

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

Technology

11.4401 Principles of Construction
6 credit points. Prerequisites: nil.
Analysis of the principles of construction with particular reference to small-scale building. The site—selection, analysis, measurement. Components and elements of buildings. Materials and construction detailing. Practical construction project.

11.4402 Structures & Materials
4 credit points. Prerequisites: nil.
Introduction to structures. History and morphology, loads and structural requirements, structural elements and systems, basic structural form, basic states of stress. Introduction to
**11.4403 Principles of Structures**

4 credit points. Prerequisites: nil.

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

**11.4404 Structures & Construction A**

5 credit points. Prerequisites: 11.4401, 11.4402, 11.4403.


**11.4405 Structures & Construction B**

5 credit points. Prerequisites: 11.4401, 11.4402, 11.4403.

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

**11.4406 Systems in Building**

4 credit points. Prerequisites: 11.4407, 11.4408.

The study of rationalization of the building process, considering methods of construction, structure and services in relation to technological developments, costs and benefits. Industrialized systems building. History, development and methods; the manufacturing industry; systems design. Case studies.

**11.4407 Services A**

3 credit points. Prerequisites: 11.4404, 11.4303.

Sources and supply of air, water and energy for use in buildings including treatment, distribution, materials and regulations; solar, electrical and heat energy; building and personal hygiene; heating, cooling, lighting; food preparation. Projects and seminars.

**11.4408 Services B**

3 credit points. Prerequisites: 11.4404, 11.4405, 11.4304.

Electrical and mechanical plant and disposal of wastes. Central thermal systems; movement of people and goods; disposal of wastes; safety and security; precautions, alarms, communications. Projects and seminars.

**11.4420 Technology of Low-rise Buildings**

5 credit points. Prerequisite: 11.4404.

Structural, constructional and services systems for low-rise buildings. A detailed study of inter-relationships both within and between the various systems, together with an overview of the influence of 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 of High-rise Buildings**

5 credit points. Prerequisite: 11.4406.

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

5 credit points. Prerequisite: 11.4406.

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

**11.4423 Rationalized Building Systems**

5 credit points. Prerequisite: 11.4406.

Systems building—philosophy and economics, systems theory craft, prefabrication and industrialization as Methods Dimensional Co-ordination. The inter-relationships 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 & Management**

3 credit points. Prerequisites: 11.4405, 11.4407, 11.4408.

Pre-planning considerations and building technology design for improved performance and management in the building construction process. 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.
11.4430 Integration of Services
2 credit points. Prerequisites: 11.4407, 11.4408.

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

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


11.4441 Building Materials B
3 credit points. Prerequisite: 11.4402, 11.4405.

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

11.4450 Advanced Structural Analysis
4 credit points. Prerequisites: 11.4403, 11.4602.

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

11.4451 Advanced Structural Design
4 credit points. Prerequisites: 11.4403, 11.4602.

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

11.4452 Models Analysis and Form-finding
3 credit points. Prerequisite: 11.4403.

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

11.4453 Surface & Spatial Structures A
3 credit points. Prerequisites: 11.4404, 11.4320.

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

11.4454 Surface & Spatial Structures B
2 credit points. Prerequisite: 11.4453.

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

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

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

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

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

Practice

11.4501 Practice & Management I
2 credit points. Prerequisites: nil.

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

11.4502 Practice & Management II
2 credit points. Prerequisite: 11.4501.

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

11.4503 Specifications and Building Economics
3 credit points. Prerequisite: 11.4502.

1. The specification, its function, its various forms, its relationship to the other contract documents; all in detail. 2. Estimating, what it is, why and how, including computer applications. 3. Cost planning is not estimating, what it is, why and how it is done, including computer applications. 4. Case studies and applications in these three areas. 5. Seminars and assignments.
11.4504 Building Contracts
2 credit points. Prerequisite: 11.4503.

1. The processing of information for the Bill of Quantities. The preparation of production, information, drawings, specifications, schedules, cost plans. 2. The recommendations of forms of contract, the obtaining of necessary approvals, recommendation of tenderers, the form of tender, preparation of information for the contractors' programming. 3. Obtaining specialist quotations and P.C. sums, provisional sums, monetary sums, investigating the supply position of key materials and plant, Initiating advance ordering. 4. Provisional and separate contracts (ie demolition, excavation). 5. Assembling and issuing all tender documents, determining nominated suppliers, nominated subcontractors, co-ordination of other consultants, documentation and tendering (ie mechanical and electrical); agreement of contract details, investigation of contractor's resources and experience. Recommendation of action on tenders received. 6. The detailed study of responsibilities and liabilities of the architect and consultants, the relevant fees and/or remuneration. 7. Statutory requirements: procedures in the completion of the documents for the signing of contracts; the status of the signatories. 8. Seminars.

11.4505 Contract Administration
2 credit points. Prerequisite: 11.4504.

1. The contract: signing, distribution of production information to all relevant parties; the updating of critical dates for contracts, programming; site staff; final nomination of subcontractors and suppliers. 2. Making inspections, instructions, certificates, extra documentation, variations, extras. Processing of claims and contract. 3. Rise and fall. 4. Practical completion; inspections; outstanding works; the handing over. The defects liability period and its administration. Obtaining guarantees, processing of retention money and final account. 5. The responsibilities and liabilities of understanding and administering contract conditions including: insurances, bond, processing certificates, claims, instructions, answering the fulfilment of the rights and duties of the client and contractor. 6. The responsibilities and liabilities of the architect and the consultant, the relevant remuneration. 7. Arbitration and litigation. 8. Post-contract activities; the appraisal of the contract, the gathering of information of managerial, technical, design and operational aspects of the contract and the building from all involved parties. Feedback of performance for use on other projects; obtaining and using cost analyses; attendance to matters of the non-performance of parts of the building; retention of records for periods relevant under the Statute of Limitations. 9. Seminars and assignments.

11.4520 Management Systems & Finance
2 credit points. Prerequisite: 11.4505.

1. Systems employed in the architect's management functions. 2. Systems thinking, PERT, C.P.M., multi-activity charting, time/cost relationships, budgeting and other resource 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 consideration on 'design' decision-making. 5. Development applications, procedures and appeals; building applications, procedures and appeals. 6. Tendering or negotiating for the contract sum. 7. Seminars and assignments.

11.4521 Documentation
3 credit points. Prerequisite: 11.4503.


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


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


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


11.4525 Project Management
3 credit points. Prerequisite: 11.4505.

Architecture

11.4526 Industrial Relations
2 credit points. Prerequisite: 11.4522.
1. An introduction and review of the history, methodology and emphasis of the basic behavioural disciplines; the biological basis of human behaviour; the significance of socio-cultural influences and determinants; need satisfaction; the origins, nature and meanings of 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
6 credit points. Prerequisites: nil.
Introduction to communication theory, its principles and history. Practice in clear, critical thinking; elementary problems-solving; logical development and presentation of arguments orally and in writing. Introduction to techniques and conventions of draughting and the use of instruments. Elementary plane and solid geometry and surface development. Objective depiction in graphic terms. Observation, analysis and graphic statement of aspects of form, indoor and outdoor. Characteristics of illumination systems. Elementary perspective. Emphasis on direct drawing in a variety of media involving methods and techniques employed, from sketches to graphic studies in both traditional and contemporary styles.

11.4602 Introduction to Computing
2 credit points. Prerequisites: nil.
Introduction to the computer and its availability as a problem-solving tool; description and usage; specific applications in particular subject areas. Data preparation; languages, flow-charts, program-writing.

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

11.4604 Graphic Art
4 credit points. Prerequisite: 11.4601.

11.4620 Presentation Graphics
3 credit points. Prerequisite: 11.4603, 11.4604.
Perspective and rendering techniques, materials, media. Graphic presentation of the natural landscape, forms and vegetation. Graphic presentation of the urban scene, people, vehicles, buildings, vegetation, street furniture, etc.

11.4621 Oral and Written Communication
2 credit points. Prerequisite: 11.4601.
Development of the critical, logical and stylistic skills involved in researching, writing and presenting essays, theses, articles, papers, reports, etc.

11.4622 Spatial Communication
2 credit points. Prerequisites: nil.
Awareness and understanding of space as an important creative aspect of architecture. Historical analysis of spaces, the theoretical exploration of spatial concepts and characteristics, and the practical experience of space.

11.4623 Models and Materials
3 credit points. Prerequisites: nil.
The development of awareness and practical skills for three-dimensional project presentation. Materials, colour co-ordination, mechanical aids, assembly techniques, application. Purpose, types of models, visual impact. Analysis and synthesis of design problems. Programming and planning.

11.4624 Architectural Photography
3 credit points. Prerequisites: nil.
Development of photographic skills relevant to architectural recording, understanding of design, and presentation. Black and white, colour, still and moving photography; video and animation. Developing, enlarging and mounting.

11.4625 Constructional Geometry
3 credit points. Prerequisite: 11.4603.
Graphic study and analysis of the geometry of architectural constructions: the underlying geometric principles from which structural framing, ribbed and shell systems are derived. These include domes, hypars and other warped shapes or planes of double curvature, folded planes, etc, and the resultant effects of intersections and penetrations of multiple units. Study of applications through analysis of constructions in contemporary architecture.

11.4626 Architectural Ceramics and Sculpture
3 credit points. Prerequisites: nil.
Historical development of ceramics and sculpture as art, and their importance as a catalyst in the development of technology and the understanding of materials and spatial concepts. Theory and practice of ceramics manufacture and its application. Ceramics, sculpture, tiles and three-dimensional constructions applied to and integrated with architecture.
11.4627 Computer Graphics
4 credit points. Prerequisites: 11.4601, 11.4603.
Use of the computer for design graphics, presentation and production drawings and graphics programming.

11.4628 Aspects of Style in Art
4 credit points. Prerequisite: 11.4604.
Aspects of modern art movements and their influence as bases for stylistic developments evident today. Awareness of the sources of style in graphic and other art forms and a capacity to express ideas at a professional level, in these terms.

Other Required Studies

11.4701 Graduation Project
8 credit points. Prerequisite: 130 credit points.
This project is available to those students intending to obtain the BSc(Arch) degree, and is intended as the culminating study of that area of architectural endeavour in which the student wishes to major. The area selected would be investigated to a degree of depth not normally required by practising architects, and thus would serve as an introduction to professional or consulting expertise in one aspect of architecture. The graduation project, communicated graphically or in writing, is to integrate the student’s knowledge and skill in the selected area of study and the topic is to be submitted for approval by the Head of School. The Graduation Project can only be credited towards the BSc(Arch) degree.

11.4702 Thesis
12 credit points. Prerequisite: 156 credit points.
A specialized individual study taken under staff supervision with the object of allowing the student either to gain knowledge in some aspect of architecture which is not covered in the course or to increase knowledge in some aspect which has been covered. As such the thesis is essential evidence of this individual study. The study does not require original experimental research for the purpose of discovering new facts or the testing of an hypothesis; neither is it an essay permitting the student’s unsupported opinion. The topic of the thesis is to be submitted for the approval of the Professor of Architecture.

11.4703 Practical Experience
6 credit points. Prerequisite: 130 credit points.
Each student is normally required to obtain 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.

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

Other Elective Studies

11.4704 Architectural Research
4 credit points. Prerequisite: 156 credit points.
An elective designed for students wishing to pursue an independent course of study in a field of architecture not falling specifically within the domain of any existing elective. Students are required to present a 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.

Section B — Subjects in the existing Courses

Design
The design and construction of building and environment, including the solution of functional problems, study and application of specialized building techniques, engineering services and equipment; documentation; estimating and building job organization. In all years theoretical aspects are covered in lectures and applied by students in studio work.

The first three years give a basic understanding primarily in the functional and practical aspects of architecture; the last two years involve students additionally in aesthetic and philosophic values.

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

11.112 Design II
The design process. Design for needs of individuals and small groups based on physical factors of health, comfort, safety and convenience. Emphasis on internal environment.

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

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

11.151 Architecture A

Discussion and application in the studios. The study of various theories and philosophies of architecture with the emphasis on aesthetics. The aims and responsibilities of the architect. Study of spatial relationships. Group building design and equipment of interior and exterior spaces. Landscaping.

The concept of the totality of architecture and an awareness of the inter-relation of the multiplicity of factors and influences which determine the final result. Problems in urban design within the concept of total architecture, involving the creation and control of the human environment, its construction and implementation in all aspects.

11.152 Architecture B

A personal philosophy of architecture with the emphasis on mental and spiritual needs. The continuation at a more detailed and complex level of the concept of 'total architecture'. Problems involving the mental and spiritual needs of the individual and the society. Advanced planning involving urban and environmental design; the associated questions of economics and services; and an awareness of developing trends in management and construction techniques in the building world.

11.5621 Landscape Design and Construction I

11.5622 Landscape Design and Construction II

Landscape Design and Construction studies as an integrated process. Material properties and construction techniques. The development of a logical design process. Simple landscape design exercises in applying the materials and techniques of construction to small-scale projects.

Development of design ability incorporating sophisticated construction techniques and basic specification clauses with an emphasis on user requirements. Design and construction associated with medium-scale projects.

A specific project is constructed during a one-week camp.

11.5131 Landscape Design and Construction III

11.5132 Landscape Design and Construction IV

More advanced exercises wherein students find it necessary to undertake considerable research and make value judgments based upon an extensive range of factors. Projects may include the design of regional parks, and open-space systems, nature reserves, camping and caravan parks, golf courses and sports fields, highways, housing estates, shopping malls and civic squares. A number of the exercises call for group work.

Several are directed towards the solution of real design briefs.

11.5141 Landscape Design and Construction V

11.5142 Landscape Design and Construction VI

Students are called upon to employ all the knowledge, skill and understanding they have gained in previous years. Projects are few in number, but call for solutions of professional standard, supported by thorough documentation. Group work predominates.

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

11.5161 Landscape Planning I

11.5162 Landscape Planning II

Current techniques of land-use planning based upon an analysis of natural phenomena and resource data. The landscape architect has an important contribution to make towards influencing wise land-use decisions directly related to the appreciation and understanding of the natural sciences and mankind's responsibility for stewardship. Students are introduced to the idea of multi-disciplinary planning teams where each member represents a particular field of expertise. Instruction emphasizes the importance of objective analysis and arguments directly concerned with natural phenomena. Planning models and systems which incorporate graphic overlays or computer techniques are studied and applied in a planning project of regional significance.

11.541 Physical Environment

Basic climatology, geology, geomorphology, and pedology, with particular emphasis on the Sydney region. Observation, selection and interpretation of physical resource data.

11.551 Natural Communities

Fundamental characteristics of biological systems, with emphasis on relationships with the physical environment. Survey of Australian plant communities and associated fauna with particular emphasis on the Sydney region.

11.561 Fundamental Landscape Techniques

Acquisition of basic skills in report writing, map reading (including appreciation of landforms, drainage patterns, contours and slope gradients), land measurement and elementary surveying methods.

11.571 Landscape Appreciation

Observation and interpretation of both the physical and biological environment and their interrelationships. Perception and appreciation of landscape character through sensory inputs of sight, sound, smell and touch. Recording and presentation techniques associated with landscape surveys.

11.8111 Theory of Architecture A1 (Elective)

The theory of synthesis of form. Sources of architectural form: the human context, the environmental context, materials of construction. The central core or 'idea' of the architectural synthesis. Priorities of criteria. Decision theory. Models of the design-process from objective and subjective points of view.

The parameters of a problem. Conflict and limitation. Economy and waste. The theory of balanced solutions. Interrelation between the whole and the parts of the formal synthesis.
Subject Descriptions

11.8112 Theory of Architecture A2 (Elective)
The speculative approach to the use of building materials, of structural elements and construction methods in relation to the mental realm. Relationship of the building to instructive, emotional, rational, intentional and intuitive needs and responses. Architectural ethics. Honesty and falsehood in architecture. The question of styles, the original and the copy. Relation between function and truth, truth and beauty. Introduction to the philosophy of aesthetics.

11.8121 Theory of Architecture B1 (Elective)
The philosophical approach to the order and directions of space. The meaning of number and geometry in architecture. The principle of proportion. The metaphysical basis of the spatial order in architecture. Principles of architectural symbolism and principles of sacred architecture.

11.8122 Theory of Architecture B2 (Elective)
Principles of sacred architecture in the great spiritual traditions. Elements of sacred geometry incorporated into sacred architecture in a general sense. The meaning and symbolism of the architectural elements according to the Christian, Moslem, Hindu and Buddhist doctrines. The universality of the idea of the sacrifice built into the traditional house, the tent, the temple and the cathedral in sacred architecture.

11.8711 Landscape Design A1 (Elective)
Physiography and Soils. An examination of landscape forms with reference to their origin and progressive modification through natural forces. The origin, classification and distribution of soils. Erosion and soil stabilization techniques with particular reference to the Australian continent.

11.8712 Landscape Design A2 (Elective)

11.8721 Landscape Elective B1—Urban Landscaping
Urban Landscaping. A series of lectures concerned with analysis, design and techniques of the man-modified environment. The treatment of spaces between buildings; their design, purpose, function and maintenance is investigated, together with construction techniques and costing. Linkages with the total environment and open space concepts are studied.

11.8722 Landscape Elective B2—Landscape Planning
Landscape Planning. Current techniques and recent case studies of land use planning based upon an analysis of natural phenomena and features. Examples studied may include national park and recreational park policies and issues concerning agricultural lands, extractive industries and conservation.

History of Architecture

11.121 History of Architecture I
A broad and general treatment of the history of architecture from the earliest times to the present day. 1. Introduction. A framework of reference for architectural history: (1) Architecture as the ‘built environment’; a partnership of man and nature. (2) The human and environmental influences that affect architecture throughout history. 2. A general chronological survey: Primitive and communal architecture; the ancient world; the classic world of Greece and Rome; the Dark Ages; Medieval architecture; Renaissance architecture. 3. A general chronological survey: Baroque and Rococo architecture; Rationalism, Romanticism and the Industrial Revolution; the twentieth century.

11.122 History of Architecture II
A more detailed treatment of some aspects of history of architecture and their relevance today. 1. A brief history of planning and urban design as a response to human needs and its expression as architectural space. 2. Some important structural, constructional, technological and organizational innovations and their influences, particularly in the Middle Ages, nineteenth and twentieth centuries. 3. The evolution of form, proportion and detail, and other related visual aspects of architecture, particularly in Classic, Renaissance and twentieth century architecture.

11.123 History of Architecture III
A history of architecture in Australia, in which the general studies of first and second years find more particular application. 1. The historical, human and environmental context of Australian architecture. 2. Architecture from the foundation of the colony to the end of World War I. 3. Architecture since World War I.

11.5311 Landscape Pre-History I
11.5312 Landscape Pre-History II
The history of landscape evolution with particular reference to the Australian region. Continental drift, orogenesis, ice ages and climatic change. First pre-literate human societies. Hunter-gatherers, herders and farmers. The effects of man’s activities upon the environment. Extant primitive societies.

11.5321 History of Landscape Architecture I
11.5322 History of Landscape Architecture II
Changing patterns of land-use throughout history as a reflection of their times and an expression of man’s attitude toward nature and of his basic individual and social needs. Ancient Egypt, Assyria and Babylonia, Greece, Imperial Rome, the Middle Ages, Persia and Moorish Spain. The Renaissance in Europe, the English Landscape School and the Picturesque Movement. Effects of the Industrial Revolution and scientific plant exploration. The emergence of public parks. Eastern landscape traditions—Chinese, Indian and Japanese garden design and their influence on western landscape architecture. The emergence of landscape architecture in North America and Australia.
11.8511 Historical Research A1 (Elective)
11.8512 Historical Research A2 (Elective)
A basic knowledge and training in research in the field of Australian architectural history. An appreciation of the purpose of the research, familiarization with sources of materials and the way in which these are best used; proper techniques in the recording and cataloguing of material together with its critical assessment and evaluation and its integration, interpretation and presentation. Application and practice in a small but thorough research project.

11.8521 Historical Research B1 (Elective)
11.8522 Historical Research B2 (Elective)
Prerequisites: 11.8511; 11.8512.
A development of Historical Research A in which the students' endeavours are directed towards the initiation and completion of an original research project in Australian architectural history.

11.8811 The Evolution of Modern Architecture A1
The antecedents of modern architecture throughout the late 18th and early 19th centuries. The styles which comprise modern architecture; the development of these styles from the late 16th century through into the early 20th century. The influence on modern architecture of civil engineering, constructional techniques, and the part played by the attendant arts such as painting and sculpture.

11.8812 The Evolution of Modern Architecture A2
Lectures by outstanding practitioners and theorists in architecture and related disciplines, relating modern architecture in Australia to overseas examples and styles.

Graphic Communication

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

11.131 Graphic Communication I


Relationship to the three-dimensional illusion. Testing of theory through observation and experiment.

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

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

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

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

11.134 Graphic Communication for Town Planners I

11.135 Graphic Communication for Town Planners II

11.5811 Landscape Graphics I
11.5812 Landscape Graphics II
Basic landscape drawing with emphasis on pencil techniques, drafting conventions, layouts, lettering, instruments, drawing types, use of scales. The principles and application of orthographic, axonometric and isometric drawing, plane geometry and solid geometry. Basic use of symbols to graphically depict environmental factors.

Advanced drawing techniques including the use of media other than pencil. An investigation of perspective theory. Application of the principles of perspective to the drawing of landforms and elements in the landscape.

11.5821 Landscape Graphics III
11.5822 Landscape Graphics IV
Advanced graphic presentation techniques of survey, analysis, synthesis and final design documentation. Major graphic project integrated with Design and Construction A.

11.5911 Landscape Graphics (Art) I
11.5912 Landscape Graphics (Art) II

Practical exercises in the basic grammar of form as elements of composition.

Projects planned to develop:
- Appreciation of the principles of composition in relation to a total graphic structure.
- Effective graphic communication of ideas and concept in terms of a variety of media.
- The use of methods and techniques to effect clear graphic statements with an economy of means.

11.5921 Landscape Graphics (Art) III
11.5922 Landscape Graphics (Art) IV

Projects planned to develop:
- A more complex and able employment of the graphic language.
- An increasing ability to balance and judge the demands of pictorial content and formal structure in the graphic presentation of pictorial material or plans.
- The potential of the individual student towards a personal expression based on increasing technical command of materials in a lucid graphic style.

11.212 Construction II

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

- Fuels and power supplies; thermal insulation: condensation; vapour barriers. Hot water supply; drainage and sanitary plumbing. 3. Roof coverings; lighting. Introduction of steel and concrete as structural materials; simple trusses and connections; single span r.o. floors. Tiles, renders, paints, steel sections, concrete mixes. Ventilation, ducting, pumps. Heating and cooling appliances and plant.

11.213 Construction III

Buildings requiring structural frames: multiple activities.


Additions and alterations, adjustable and demountable structures. Procedures, economics. Communication systems.

11.2131 Construction IIIA

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

11.2132 Construction IIIB

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

11.5231 Landscape Engineering I
11.5232 Landscape Engineering II


11.5531 Plants and Planting Methods I
11.5532 Plants and Planting Methods II

Native and exotic plants in general use within the various climatic zones of Australia. Availability, uses and limitations. Methods of propagation, planting, fertilizing and after-care.

Commercial Forestry. Native and exotic grasses, turf culture. Plant pests and diseases and their control by chemical and other means.

The subject involves a number of visits to commercial plant nurseries.
Earthquake and cyclone resistant construction, testing and current and future trends in construction. Topics include evaluating materials and systems of construction, construction planning and control, maintenance planning, limitation and disposal of wastes, economic use of energy and the exchange of discovered information. The topics concentrate on development methods and techniques in construction planning and management, computer application to communication, erection, quality and management control.

**11.8211 Construction A1 (Elective)**

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

**11.8212 Construction A2 (Elective)**

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

**11.8221 Construction B1 (Elective)**

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

**11.8222 Constructions B2 (Elective)**

Current and future trends in construction. Topics include limitation and disposal of wastes, economic use of energy and materials, mechanical devices in building, industrialized building, construction planning and control, maintenance planning, earthquake and cyclone resistant construction, testing and evaluating materials and systems of construction.

**Structures**

A study of the role of structure in Architecture, with emphasis on the selection and behaviour of structural systems. Exercises in structural design and laboratory experiments supplement the lectures, which are intended to relate closely to work done in the Studios.

**11.221 Structures I**


**11.222 Structures II**


**11.223 Structures III**


**11.2241 Structures A1 (Elective)**

The mathematical analysis and design of basic architectural structures with an extension of the study into advanced and complex systems and future trends in the field. Typical topics include timber and plywood structures and stressed skin panels.

**11.2242 Structures A2 (Elective)**

A similar study to that of Structures A1, but encompassing different topics eg large spans, space frames and shells.

**11.2251 Structures B1 (Elective)**

Model and physical analysis of the design of basic architectural structures with an extension of the study into advanced and complex structures.

**11.2252 Structures B2 (Elective)**

Model and physical analysis of the design of basic architectural structures with an extension of the study into advanced and complex structures.

**11.226 Properties of Materials (Elective)**

The physical and chemical properties relevant to the assessment of new materials and new applications for old materials. Topics include: building material resources and use; structure of solids; elastic and inelastic behaviour; creep and fatigue; corrosion and durability; thermal effects; dimensional change; acoustic properties; fire resistance; experimental methods used in determining these properties.

**11.227 Behaviour of Materials (Elective)**

Lectures and demonstrations by visiting specialists on the behaviour and characteristics of a range of building materials covering in particular the aspects of corrosion, abrasion, strength, fatigue, thermal and acoustic properties. Emphasis is given to the interaction between different materials.
11.228 Earth Construction A1 (Elective)
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 implications. Laboratory classes to support the above, including the manufacture and testing of earth blocks, the construction of short walls, the application and evaluation of finishes.

11.229 Earth Construction A2 (Elective)
The design and construction of a small structure using earth as a major material and the monitoring of environmental conditions in similar structures.

11.6021 Landscape Structures and Materials I
11.6022 Landscape Structures and Materials II
Introduction to structural design as applied to landscape architecture. Historical development of structures, understanding of structural terminology and systems of measurement. Conditions of stability and equilibrium as applied to earth retaining structures, materials in common use. Importance of material selection in remote areas.

Behaviour of elevated structures. Beam, column and bracing design. Structural systems for bridging streams, for lookouts, fire towers and specialized buildings.

Importance of equilibrium and stability in elevated structures, analysis of forces and member stresses with commonly used materials.

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

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

11.271 Architectural Science I
Mathematics
1. Elementary computer programming; differentiation and integration of simple functions; the definite integral. 2. Application to curve sketching, arc lengths, areas and volumes, moments of inertia, fluid pressures. 3. Plane curves; conics and surfaces of revolution; quadric surfaces; ruled and warped surfaces; convex bodies; spherical trigonometry; projective configurations.

Physics

Architecture
Psychophysics and Climatology: environmental design and total comfort; psychophysical measures in the fields of heat, light and sound. Climate and its influence on building design.

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

Materials Science Part I: properties of building materials; density, porosity, elasticity and mechanical properties.

11.2711 Architectural Science IA
Mathematics
As for 11.271 Architectural Science I.

11.2712 Architectural Science IB
Physics and Architecture
As for 11.271 Architectural Science I.

11.272 Architectural Science II
Materials Science Part 2

Thermal Design Part I
Thermal properties of buildings, heat transmission and insulation. Hygrometry and condensation. Radiant energy from the sun.

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

Acoustic Design Part I
Noise control in buildings, transmission of air-borne and structure-born sound; methods of noise reduction and sound insulation; community noise; planning techniques, barriers.
11.273 Agricultural Science III

Thermal Design Part II
Principles of heating, cooling and natural ventilation. Application of thermal design to various buildings.

Lighting Design Part II
Artificial lighting; light sources and their spectral characteristics; quality of lighting and glare control; graphical representation of light distribution; lighting design methods and application to buildings. Supplementary artificial lighting of interiors, photometry.

Acoustic Design Part II
Auditorium design; geometrical techniques; reverberation control; sound absorbing materials and systems.

Architectural Science Research Review
Review of current research in architectural science; the role of research and testing laboratories.

11.8411 Acoustics A1 (Elective)
Practical application of theoretical material. Principal topics include sound insulation and noise reduction in buildings and the use of acoustic models in auditoria design.

11.8412 Computer-aided Design A2 (Elective)
The use of the computer and the availability of programs in architecture including computer graphics. Literature computing and the techniques of information storage and retrieval. Practice in the production and application of programs.

11.8421 Acoustics B1 (Elective)
Prerequisite: 11.8411 Acoustics A1.

11.8422 Computer-aided Design B2 (Elective)
Prerequisite: 11.8412 Computer-aided Design A2.
Supervised individual or group student research into an approved topic within the respective fields.

11.8431 Lighting Design A1 (Elective)
Factors influencing the design of the visual field, the eye and vision, visual performance, apparent brightness and the concept of luminance design, light production and colour rendering, glare evaluation and control, modelling, scalar and vector illuminance. Appraisal sessions.

11.8432 Lighting Design A2 (Elective)
Practical aspects of lighting equipment and design, methods of light control, design and construction of fittings, classification of light distribution, lighting systems including integration of light fittings, maintenance and economics, exterior lighting design and photometry.

11.8441 Lighting Design B1 (Elective)
Prerequisite: Lighting Design A2.
Interior Lighting Design, problems of daylighting design, forms of integrated daylighting and artificial lighting, design by apparent brightness, Waldram's designed appearance method, lighting appraisals and studies of lighting design problems.

11.8442 Lighting Design B2 (Elective)
Prerequisite: Lighting Design A2.
Experimental investigation and research in an elected aspect of lighting design.
Seminars for the discussion of methodology results and development of techniques in application.

Management

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

1. Historical background; professional institutions; code of ethics; conditions of engagement; scale of professional charges; specialist consultants. 2. The Architects' Registration Act of New South Wales, Laws of contract; types of contract; articles of agreement; relationship of contracting parties and the architect; architects' responsibilities; negligence; arbitration; litigation; statutory controls; copyright. 3. Office administration; correspondence; reports; insurance; finance; tenders; contract administration; organization of the building industry; problems of practice.

11.331 Estimating and Specifications

1. Estimating
An appreciation of:
The functions of the quantity surveyor; methods used for estimating; the Australian standard method of measurement of building works; examples of 'building up' the elements of a unit cost for pricing a bill of quantities; typical problems in estimating costs of building works.

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

Cost planning techniques; costing a design; designing to a cost; cost analysis; cost planning; cost control procedures.

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

Definition, objects and purposes of a specification; specification as a contract, legal and working document. Relationship to Bill of Quantities and drawings; schedules; reference
material; ‘Master’ specifications; outright and performance specifications; prime cost and provisional sums; specification sections, clauses and language; preparation and format; printing, binding and distribution.

Explanation of documents; general conditions; specifications of individual ‘trades’; schedule of p.c. and provisional sums; specifications for alterations, additions and new work; specification assignment.

Landscape

11.502 Plants and Environment
Germination, establishment, growth and reproduction of plants in relationship to natural regeneration and horticultural practice. Familiarization with exotic and native plant material in relationship to land use and management. Consideration of limiting factors in the physical environment which affect the success of plant growth.

11.552 Introduction to Computer Applications
The use of computers by landscape architects. Necessary knowledge to make full use of opportunities that the computer can provide including time sharing, batch processing and the use of graphic output. Components of the computer and their inter-relationships, data processing, file management, use of library programs, interpretation of results, basic programming.

11.5631 Landscape Specifications and Estimates I
11.5632 Landscape Specifications and Estimates II
The principles and methods involved in compilation of landscape specifications and estimates. Outright and performance specifications together with sections, clauses and terms appropriate to each type. Unit rates for commoner landscape operations—excavation—haulage—filling—topsoiling, grassing, paving, etc. Costs of labour, materials and overheads.

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

11.5731 Recreation Planning I
11.5732 Recreation Planning II
Open space capable of use for public recreation is studied as a diminishing national resource, subject to increasing demand. Various open-space classifications—primitive areas, scenic areas, native reserves, national parks, historic sites, foreshore reserves and sports arenas—are examined with respect to their individual characteristics and usage capacity. Current open-space legislation is reviewed, together with the aims and achievements of the National Parks and Wildlife Service, and successful Australian and overseas examples of planned recreational use are studied in detail.

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

11.5831 Environmental Impact Studies I
11.5832 Environmental Impact Studies II
Lectures and seminars designed to familiarize students with systems of impact evaluation and develop their ability in value judgment. The series includes exercises in the use of a matrix, and examines both the policy and procedures for environmental impact studies as established by the New South Wales State Government.

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

Theses

11.171A Thesis (Architecture)
11.171B Thesis (Architecture)
A specialized individual study taken under staff supervision with the object of allowing the student either to gain knowledge in some aspect of architecture which is not covered in the course or to increase his knowledge of some aspect which has been covered. As such the thesis is essentially evidence of this individual study. The study does not require original experimental research for the purpose of discovering new facts or the testing of an hypothesis. Neither is it an essay permitting the student’s unsupported opinion. The topic of the thesis is submitted by the student for the approval of the Professor of Architecture at the beginning of the second year and the completed thesis submitted for examination towards the end of the third year.

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

The topic of the thesis must be submitted for approval of the Professor of Landscape Architecture at the close of the sixth session. The completed thesis must be submitted for examination at the close of the eighth session.
Graduate Study

11.651G Mechanical Noise Sources
Basic noise sources; relative efficiencies. Purely mechanical sources; radiation of sound from surfaces, general industrial noise, gear noise, reciprocating engine and compressor noise, electrical machinery noise. Aerodynamic noise; jet flows, fan noise (centrifugal and axial), combustion noise.

11.910G History of Landscape Design
Primitive cultures and their impact upon the landscape through farming, transport and settlement patterns. Social influences, aesthetic beliefs and their expression through the ages in the design of parks and gardens. The industrial revolution and resultant changes in the humanised landscape. Landscape development in America and Australia.

11.912G Landscape Engineering
Bernoulli's Theorem, flow through orifices, over notches, in channels and pipes. Pumps and reticulating equipment.

11.913G Theory and Practice of Landscape
Aesthetic philosophies of landscape design—scale—texture and colour. Design, construction and maintenance in urban and rural environments, including highways, residential areas, parks and gardens. Erosion control and shore protection.
Landscape surveys and analyses. Specifications, contracts and office procedure.

11.914G Forestry and Horticulture
Principal commercial trees—identification—planting techniques, care and maintenance, including fire and insect pests, and felling techniques. Forest nursery practice and forest economics. Characteristics, identification and specific requirements of selected plants and shrubs. Soil requirements and cultivation. Grasses, lawn and playing field construction. Use of herbicides and selective weed killers—control of insect pests.

11.915G Landscape Design
A series of design assignments to be executed in the studio. It is anticipated that some work will be required to be done at home.

11.951G Architectural Management

11.990G Construction, Contracts and Documentation I
11.991G Construction, Contracts and Documentation II
Construction of single and multi-storey buildings; building services; materials; forms of building contract and subcontract; tendering; contract documentation; specifications; supervision.

11.992G Acoustics of Speech and Music
Acoustic characteristics of speech; speech analysis and recognition; music and musical instruments; room acoustic effects on speech and music.

11.993G The Ear and Hearing
Physiological and psychological factors in sound perception; subjective scales and units; masking, discrimination; speech intelligibility; noise annoyance; calculation of loudness.

11.994G Hearing Conservation
Threshold shift; impulsive and continuous noise; hearing damage risk criteria; hearing conservation programs and audiometry.

11.995G Community Noise
Sources of community noise; sound propagation out-of-doors; land-use zoning, including siting of airports and highways; measurement and assessment of community noise annoyance; barriers.

11.996G Graduate Project
An individual topic to be selected from one of the following fields: physical theory; machinery, duct and vibration noise; noise control in buildings; community noise; room acoustics; or electro-acoustics.

11.997G Auditorium Acoustics (Elective)
Subjective and objective criteria for speech and music; reverberation theory; diffusion; steady state and transient room response; geometrical, physical and model analysis of auditoria; sound reflectors and sound absorbents; methods of measurement of sound absorption coefficients.

11.998G Airborne and Impact Noise Control In Buildings (Elective)
Single multiple-leaf and sandwich partitions and floors; airborne and impact noise reduction; flanking transmission; vibration isolation; performance standards and specifications; speech privacy; methods of measuring sound transmission loss and noise reduction in the field and laboratory. Plumbing and services noise control.
11.999G  Advanced Acoustics of Speech and Music  
(Elective)

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

School of Accountancy

Undergraduate Study

14.001  Introduction to Accounting A
2 credit points; compulsory. Prerequisites: nil.


14.002  Introduction to Accounting B
2 credit points; compulsory. 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.

14.051  Law for Builders I
2 credit points; compulsory. Prerequisites: nil.

Law, including brief outline of sources of law in New South Wales and the system of judicial precedent. General principles of law of contracts. Contractual rights and obligations. General principles of law of agency. Law of partnership.

14.052  Law for Builders II
2 credit points; compulsory. Prerequisites: 14.051.

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

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


14.081  Introduction to Financial Analysis
4 credit points; compulsory. Prerequisites: 14.002.

Basic concepts and principles necessary to make effective financial management decisions. The nature of financial management; the business environment; financial analysis; planning and control; capital investment decisions; organization of the financial structure; operating and working capital management; growth and development; and the causes and prevention of financial instability and failure.

Department of Industrial Relations

15.501  Introduction to Industrial Relations
For students enrolled in Faculties other than Commerce and Arts. It is designed to provide a practical introduction to important industrial relations concepts, issues and procedures. Topics include: the origins, evolution and operation of the Australian system of industrial relations, the structure and role of trade unions and employer bodies; the function of industrial tribunals such as the Australian Conciliation and Arbitration Commission and the N.S.W. Industrial Commission, wages structure and determination; employment, unemployment and retraining; the nature and causes of strikes and other forms of industrial conflict; the processes and procedures for conflict resolution.

Where appropriate to class composition, particular attention is paid to individual industries.

15.901  Economics for Town Planners

School of Transport and Highways

Undergraduate Study

19.521  Statistical Methods and Data Processing
Statistical concepts and methods for students in Town Planning. Organization and analysis of data, elementary probability, introduction to the standard distributions, sampling distributions, statistical inference and regression methods. First course in computer programming.
**School of Geography**

Undergraduate Study

27.294 Physical Geography for Town Planners
The physical bases of landscape: landforms, geology, soil vegetation and climate. Aims and techniques of landscape appraisal. Laboratory classes to support the above, including analysis of topographical, geological and soil maps, air photo interpretation and land assessment. There is a compulsory field excursion equivalent to eight hours of tutorials.

27.296 Physical Geography for Landscape Architects
The application of landform and soil studies to landscape architecture. Aims and techniques of landscape appraisal. Laboratory classes to support the above, including map analysis, air photo interpretation and examination of soil properties. Each student is involved in individual project work on an approved aspect of land resource evaluation. There is the equivalent of a one-hour seminar per week.

There is a compulsory field excursion equivalent to eight hours’ tutorial time.

**School of Building**

Undergraduate Study

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

35.500 Building Graphics
6 credit points; compulsory. Prerequisites: nil.
The development of visual awareness and the practical skills basic to the observation, analysis and recording of appearance. An introductory survey of the visual environment of man: buildings, precincts, squares, architectural considerations. Practical exercises in two and three dimensional composition in various media.

35.501 Construction I
5 credit points; compulsory. Prerequisites: nil.
Functional requirements and methods of building single family dwellings: footings for various site conditions; brick, brick veneer and timber walls; flooring, ceiling and roof framing; domestic joinery; finishes; domestic services; plumbing, drainage and electrical at elementary level; methods of setting out and supervision. Practical technical drawing, descriptive geometry and use of drafting equipment.

35.502 Construction II
5 credit points; compulsory. Prerequisites: nil.
The major building trades and crafts including the use of tools and materials, and the on-site observation of trade practices: materials, techniques, tools, terminology, problem areas, quality control and supervision. The construction of a dwelling through its various stages including elementary time and motion studies.
35.503 Construction III
5 credit points; compulsory. Prerequisite: 35.501.
Small multi-storey buildings from the functional and construction operation viewpoints. Concepts from Construction I are further developed and new concepts are introduced: site work procedures; concrete as a building material; foundations and footings; types of wall construction; basement, ground floor and upper floor construction; methods of roofing, waterproofing; construction of staircases; joinery; steel as a building material; internal finishes; minor construction plant, formwork.

35.504 Construction IV
5 credit points; compulsory. Prerequisite: 35.503.
Functional requirements and methods of constructing light industrial buildings: further development of structural steel, large span factory roofing, welding techniques, fire requirements, cladding methods, installation of cranes and machine footings, scaffolding, relevant builder’s plant and equipment.

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

35.506 Construction VI
4 credit points. Prerequisites: 35.505, 35.703.
Building techniques employed on major projects including the use of plant, equipment and various construction systems: excavation equipment, shoring, ground anchorage, pile drivers, formwork, slip form, craneage, concrete handling. Integrated construction systems. Students undertake on-site studies. Emphasis on method of construction rather than the attributes of the finished product.

35.507 Construction VII
4 credit points. Prerequisites: 35.505, 35.703.
Comparative studies of construction systems for the various types of buildings: industrialized housing, tilt-up, top-to-toe, progressive strength, lift slab, pneumatic structures, cable structures, pneumatic forming, foam structures, mobile buildings.

35.508 Construction VIII
4 credit points. Prerequisites: 35.505, 35.704.
Industrialized techniques of material and component manufacture. Production planning and control. Factory layout design, materials handling, plant and equipment, automatic and semi automatic processes, numeric control. Production machines and tools. Raw materials technology, timber, metals, ceramics, plastics etc. Storage, packaging and transportation of finished products.

35.551 Structures I
5 credit points; compulsory. Prerequisites: nil.

35.552 Structures II
5 credit points; compulsory. Prerequisite: 35.551.

35.553 Structures III
5 credit points; compulsory. Prerequisite: 35.552.

35.554 Structures IV
4 credit points. Prerequisite: 35.553.

35.570 Environmental Studies
2 credit points. Prerequisites: nil.
Some of the problems faced by those who will be building and managing future projects. A broad introduction on the physical characteristics of the Sydney Region, ie 1. projected land-use growth factors; 2. major transport systems, and a brief summary of the architectural history of the Region.

Undesirable impact on the environment: 1. noise; 2. pollution of land, air, water; 3. wastage of resources; 4. re-development problems: (1) client's view, (2) architect's view, (3) landscaper's view, (4) role of environmental impact studies. Public reaction to the above. Comments and discussions with resident action groups, green ban supporters, etc. Seminars to discuss building techniques and possible structural methods to satisfy both client requirements and public concern.
35.580 Building Design Analysis
3 credit points. Prerequisites: 35.505, 35.704.
A critical analysis and evaluation of current building designs within the study areas of: communication and documentation, information flow, appropriate construction methods, constructibility and work flow, construction economics and cost-value analysis.

35.581 Historical Development of Building
2 credit points; compulsory. Prerequisites: nil.
Background to building: the ancient world, recent history: Europe, Asia, the Americas, Australia. Development of structures, construction, building science and building economics.
Rationalization and industrialization. Innovations, building research. Development of the structure of the industry and professions; laws and regulations, industrial relations, the contract document.

Building Science Stream

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

35.601 Building Science I (Materials)
4 credit points; compulsory. Prerequisites: nil.
Properties of materials: plasticity, elasticity, density, porosity, hardness. Optical, electrical, thermal and acoustic properties.

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

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

35.604 Building Science IV (Plastics)
3 credit points. Prerequisite: 35.601.
Polymers in building: history and development of polymers, chemical structure, properties and applications of thermoplastics and thermosets, forming and design, reinforced plastics, fabrication techniques, building adhesives, elastomers, modified concrete.

35.605 Building Science V (Concrete)
3 credit points. Prerequisite: 35.601.
Concrete technology: cement, aggregates, water and admixtures, properties of fresh concrete, strength considerations, durability, shrinkage and creep, special concretes, non-destructive testing, mix design.

35.606 Building Science VI (Metals)
3 credit points. Prerequisite: 35.601.
Metals in building: structural ferrous alloys, structural and architectural non-ferrous alloys; corrosion and protection; welding; types of failure: brittle fracture, fatigue, creep; impact resistance, tensile properties, hardness, strain hardening.

35.607 Building Science VII (Thermal)
3 credit points. Prerequisite: 35.602.
Building with climate: climate (global and local), thermal comfort factors and indices, principles of thermal design, thermal control, ventilation and air movement, light, daylighting, sound, noise control, shelter for various climate types, design aids.

35.608 Building Science VIII (Systems)
4 credit points. Prerequisite: 35.603.
Systems analysis methods. The systems approach of considering the interconnection of processes forming part of a larger whole, is introduced as a general concept applicable to biological, social and scientific disciplines. In particular, the systems analysis techniques of network analysis, mathematical programming, and simulation is studied in relation to the planning, design and construction management of building projects.
35.609 Building Science IX (Timber)  
3 credit points. Prerequisite: 35.601.

The production and marketing of timber; test methods and properties; stress grading of timber, codes of practice; chemical, physical and biological attack and weathering of timber; protection and preservation; thermal, acoustic and aesthetic properties; factory techniques, plywood, particle board, hardboard, softboard, prefabricated building components, laminated beams.

35.651 Services I (Hydraulics)  
3 credit points; compulsory. Prerequisites: nil.

Hydraulic services pertaining to small and medium size projects: hot and cold water reticulation; sewer and storm water drainage; sanitary plumbing; introduction to fire fighting equipment and services; regulatory authorities and requirements.

35.652 Services II (Environmental)  
3 credit points; compulsory. Prerequisite: 35.602.

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

35.653 Services III (High Rise)  
4 credit points. Prerequisites: 35.651, 35.652.

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

35.670 Mathematics for Builders  
4 credit points; compulsory. Prerequisites: nil.


Management Studies Stream

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

35.701 Management I  
4 credit points; compulsory. Prerequisites: nil.

Scientific management principles, administration and supervision; principles of organisation, individual and group behaviour; technical report writing; the Australian economy and the building and development industry; introduction to scientific methods of construction planning and control; the building and development industry, history, products, markets, resources, future development and career opportunities; the structure of the building and development industry, building acts and regulations, codes, local government authority powers, fees and approvals.

35.702 Management II  
4 credit points; compulsory. Prerequisite: 35.701.

The application of scientific management theory in practice with particular reference to building organisations. Business practice procedures in relation to: statutory requirements, employment, purchasing, safety and accident prevention, risks and insurance and the conduct of meetings and formal company procedures.

35.703 Management III  
4 credit points; compulsory. Prerequisites: 35.503, 35.702.

Basic decision theory, techniques and procedures. Operational research techniques with particular reference to the use of networks for planning and scheduling. Selected aspects of work study appropriate to the building industry. Technical supervision.

35.704 Management IV  
4 credit points; compulsory. Prerequisites: 14.051, 35.703.

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

35.705 Management V  
4 credit points. Prerequisite: 35.703.


35.706 Management VI  
4 credit points. Prerequisite: 35.703.


35.707 Management VII  
4 credit points. Prerequisite: 35.704.

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

35.708 Management VIII
4 credit points. Prerequisite: 35.704.

Finance and marketing for builders and developers in the Australian and Pacific environment with particular emphasis on the marketing mix, the relationship between a marketing system and its environment, development of marketing tactics and strategy, market segmentation and the buyer decision process together with the nature of financial management; the business environment; financial analysis; planning and control; capital investment decisions; organization of the financial structure; operating and working capital management; growth and development; and the causes and prevention of financial instability and failure.

35.720 Commercial Arbitration
4 credit points. Prerequisite: 35.704.

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

Building Economics Stream

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

35.801 Quantity Surveying I (Measurement)
4 credit points; compulsory. Prerequisite: 35.503.

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

35.802 Quantity Surveying II (Billing)
4 credit points. Prerequisites: 35.504, 35.870.

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

35.803 Quantity Surveying III (Cost Planning)
2 credit points. Prerequisite: 35.802.

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

35.851 Building Economics I
6 credit points; compulsory. Prerequisite: 14.002.

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

35.862 Building Economics II
5 credit points. Prerequisite: 35.851.

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

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

35.853 Building Economics III
5 credit points. Prerequisite: 35.862.

Economic advantages and disadvantages of conventional on-site construction and industrialized building components and system building. Financial controls used in the erection, management, maintenance and demolition of buildings. Cost benefit analysis; utility, costs and benefits; compensation tests and equity; social welfare functions; accounting prices; external effects and public goods; social rate of discount; formulae for project choice; risk and uncertainty; case studies.

35.870 Building Specifications
2 credit points. 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
4 credit points. Prerequisites: 35.504, 35.890.

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
2 credit points. Prerequisites: nil.

Special Requirements

35.900 Thesis (Building)
10 credit points; compulsory. Prerequisites: a total of 100 credit points.
A specialized individual study taken under staff supervision with the object of allowing the student either to gain knowledge in some aspect of building which is not covered in the course or to increase his knowledge of some aspect which has been covered. As such, the thesis is essentially evidence of this individual study. The study does not require original experimental research for the purpose of discovering new facts or the testing of an hypothesis. Neither is it an essay permitting the student's unsupported opinion. The topic of the thesis is to be submitted by the student for the approval of the Head of the 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.

35.910 Industry Semester
3 credit points; compulsory. Prerequisites: 35.503, 35.702.
It is desirable for students to be exposed, at the appropriate time during their course, to industrial conditions and experiences and this can best be achieved by continuous employment 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 but should not be taken in the final semester.
During the industry semester, students are under the supervision of a staff member and are required to submit a report on an approved topic.

Other Subjects

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

Graduate Study

35.210G Building Contracts and Documentation
2 credit points. Prerequisites: nil.

35.230G Operations Planning I
4 credit points. Prerequisites: nil.
Planning principles; techniques. Decision theory. Construction strategy. Programming of all phases of design and construction operations.

35.235G Operations Planning II
4 credit points. Prerequisite: 35.230G.
Further development of topics in operations planning and operations research: specific management options, management models, risk analysis and resource scheduling. Case studies.

35.240G Graduate Project
7 credit points. Prerequisites: nil.
Each student is registered for the Graduate Project throughout his or her course. Semesters 1 & 2: Survey of the project area, preliminary submission containing an outline of the project. Semesters 3 & 4: consultations, group discussions and seminars on the project topics; preparation of a graduate project.

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

35.265G Management of the Design Process
2 credit points. Prerequisites: nil.
Industry structure; roles of industry participants; changes in roles and responsibilities; the integration of construction skills with design as a pre-contract input; the costs and benefits of such an approach; user-owner brief; total project planning, forms of contract, administration of contracts, progressive design, input and as-executed drawings.
35.275G Property Management
2 credit points. Prerequisites: nil.

35.295G Construction Techniques
4 credit points. Prerequisites: nil.
A program of lectures and seminars to study construction methods; some specialized problems and techniques for their solution.

35.315G Construction Plant and Equipment
2 credit points. Prerequisites: nil.
Advances in construction equipment and its application in various construction phases. Temporary services for large construction projects. Case studies.

35.330G Cost Planning and Analysis
2 credit points. Prerequisites: nil.
Cost planning history, definitions, processes and applications; survey of world usage; the viewpoints of the Architect, the Manager, the Cost Planner and the Services Engineer; case studies; seminars.

35.345G Computer Applications
2 credit points. Prerequisite: 35.360G.
Further development of computing concepts. Completion of the Fortran language. Assignments in some of the following areas: scheduling, operations planning, structures, statistics, simulation, linear programming.

35.355G Computer Graphics
2 credit points. Prerequisite: 35.360G.
Introduction to computer graphics and graphic devices: drum and flat-bed plotters; electrostatic printer/plotters; storage tube and refresh tube graphic displays; digitizers. Use of software and application packages in the following areas: building plans, perspectives, shadows, land form, quantity surveying, networks, etc.

35.360G Computer Techniques
3 credit points. Prerequisites: nil.
Nature and use of digital computers. Components of a system. Introduction to interactive computing and terminals, elements of the Fortran language. Application of computers in various areas: scheduling; structural design; services; statistics; data reduction; information systems.

35.370G Experimental Techniques
2 credit points. Prerequisites: nil.
Principles of instrumentation, metering; recording and analysing experiments. Method of dimensions, principle of similarity, testing of scale models. Experimental methods in psychology and sociology; design of subjective experiments and questionnaires.

35.380G Services and the Environment
3 credit points. Prerequisites: nil.
Parameters affecting comfort, i.e. psychophysical factors. Effect of building components, materials and services on the environment: effect of walls, floors and fenestration on the thermal, acoustic and lighting environments.

35.390G Building Structures and Services
2 credit points. Prerequisites: nil.
A qualitative study of structural systems and their interaction with services. Integration of services and structure. Use of computer packages in structures and services. Case studies of special integrated solutions, with particular reference to prefabrication and industrialized building. Space requirements for installations.

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

35.425G Building Services
4 credit points. Prerequisites: nil.
A study of thermal, electrical, hydraulic and mechanical services in buildings with regard to flexibility, space usage, long-term efficiency, design life and economy.

35.450G Energy Balance of Buildings
1 credit point. Prerequisites: nil.

35.460G Applied Building Economics
2 credit points. Prerequisites: nil.
The inter-relationship between the national economy and the building industry; entrepreneurship in the building industry; small-business economics in the building industry; the econ-
omics of conventional and industrialized buildings; financial management of building contracts; economics of property development.

35.470G Analysis and Valuation of Property
2 credit points. Prerequisites: nil.
Buildings as an investment: Site value and selection; optimum site development; assessment of depreciation. Feasibility assessment, including renovation or demolition decision. Amortization of depreciating assets. Economic analysis of hypothetical development of sites. Valuation reports including case studies of building investment projects.

35.480G Managerial Economics in Building
2 credit points. Prerequisites: nil.
Advanced techniques of pragmatic concern to the building economist: Techniques, problems and model derivation; decision theory; planning of production, labour and inventories; design of decision systems; dynamic programming; sensitivity analysis; integrated models of the firm; econometric models of the economy.

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**School of Town Planning**

**Undergraduate Study**

36.131 Communication Techniques

36.271 Environmental Science

36.411 Town Planning

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

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

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

36.440 Planning Elective
Students have the opportunity to develop with staff a specialization in an area of interest such as: Australian planning history, recreation planning, urban systems. The study area depends on staffing resources and facilities.

36.451 History of Town Planning

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

36.472 Planning Law
36.473 Statutory Planning
An introduction to the techniques needed to transform the policies and details of planning proposals into documents which will have the support of law. Complementary to the subject 'Planning Law'. Includes the evolution of statutory planning in the United Kingdom and Australia, with particular reference to New South Wales.

36.482 Land Valuation

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 is submitted by the student for the approval of the Professor of Town Planning at the end of the fourth year of the course and the completed thesis submitted for examination towards the end of the fifth year.

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

36.503 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.

36.511 Introduction to Planning
The subject serves to introduce planning as an academic and professional discipline.

Levels of planning and types of plans. The subject is intended to expose students to planning issues at world, national, regional, city, town and neighbourhood levels. Types of plans prepared for these levels are studied.

The interaction of land use and movement is studied and the implications of this relationship are considered.

36.512 The Planning Process
Prerequisite: 36.511.

The concept that planning is a process is considered including the evolutionary aspects. A cyclical process for the preparation of plans at any level is studied. Social, economic and environmental implications of planning are considered at all levels from world to neighbourhood.

36.513 Precinct Planning
Prerequisite: 36.512.

Precinct planning in existing urban areas. The scope and limitations of small-scale local planning in existing urban areas, and the role of the town planner in this. Objectives; surveys; analyses; identification of options. The role and methods of citizen participation. The nature and purpose of zoning. Studio and field exercises in civic survey, and environmental studies.

36.514 Neighbourhood Planning
Prerequisite: 36.513.

New residential neighbourhoods. The nature and elements of the neighbourhood. The skills necessary to design residential areas for up to 10,000 people. Constraints. Requirements: community services and facilities. The design process. Methods of implementation. Effects on land values and taxes.

36.515 Planning of Towns
Prerequisite: 36.514.

Lectures on the growth, change and decay of urban areas, on new towns in Australia and overseas, and on commercial and industrial areas. General town design concepts and issues.

Field excursions and studio exercises in the planning and design of existing and new urban areas in both the metropolitan and rural context. Synthesis of previous studies in plan preparation and administration, in neighbourhood planning, and in transportation and traffic planning.

36.516 Metropolitan Planning
Prerequisite: 36.515.

An understanding of the workings of a metropolitan area, as a basis for planning decisions. Seminar topics and investigations, with verbal and written submissions, in the fields of: metropolitan lifestyles, societal values and their expression in the city, semi-public decisions, public policies, and metropolitan form.

36.517 Regional Planning
Prerequisite: 36.516.

Planning theory and practice at a regional level of scale. Regional analysis including location theory, strategies of regional policy. Trends in Australian agriculture. Sub-regional analysis including ecological land-use planning, recreation and preservation. Introduction to research techniques.

36.521 Research Methodology
Social science research methods. Sampling techniques, questionnaire design, interviewing, data processing, use of
packaged computer programs. Introductory statistical methods: applications to data. Demographic methods, growth rates, population composition.

Graduate Study

36.930G Theory of Neighbourhood Planning I
36.931G Theory of Neighbourhood Planning II
The neighbourhood concept: its historical evolution and development. The contributions of Ebenezer Howard, Unwin and Parker, Clarence Perry, Stein and Wright, Frank Lloyd Wright, Le Corbusier, Walter Burley Griffin, Frederick Gibberd, Steen Eiler Rasmussen, and others. Neighbourhood structure, elements and form. Relationship to town and metropolitan planning.

36.940G Practice of Neighbourhood Planning I
36.941G Practice of Neighbourhood Planning II
36.942G Practice of Neighbourhood Planning III
36.943G Practice of Neighbourhood Planning IV

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.

Undergraduate Study

43.202 Plant Structure and Function
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.

School of Sociology

Undergraduate Study

53.321 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.
The University of New South Wales Kensington Campus 1978

Buildings
Applied Science F10
Architecture H14
Banks F22
Barker Street Gatehouse N11
Basser College C18
Biological Sciences D26
Biomedical Lecture Theatres E27
Central Lecture Block E19
Chancellery C22
Civil Engineering H20
Classroom Block (Western Grounds) H3
Dalton (Chemistry) F12
Electrical Engineering G17
Electrical Engineering Theatre F17
Goldstein College D16
Golf House A27
Gymnasium B5
House at Pooh Corner N8
International House C6
John Goodsell (Commerce) F20
Keith Burrows Lecture Theatre H14
Kensington Colleges C17
Main Building K15
Maintenance Workshop B13
Mathews F23
Mathews Theatres D23
Mechanical and Industrial Engineering J17
Medicine (Administration) B28
Menzies E21
Metallurgy E9
Morven Brown (Arts) C20
New College (Anglican) L6
Newton J12
Old Main Theatre J14
Parade Theatre E3
Parking Station H25
Philip Baxter College D14
Robert Heffron (Chemistry) E12
Sam Cracknell Pavilion H8
Science Theatre F13
Shalom College (Jewish) N9
Sir John Clancy Auditorium C24
Sir Robert Webster (Textile Technology) G14
Squash Courts B7
Unisearch House L5
University Regiment J2
University Union (Roundhouse) — Stage I E6
University Union (Blockhouse) — Stage II G6
University Union (Squarehouse) — Stage III E4
Wallace Wurth School of Medicine C27
Warrane College (Roman Catholic) M7
Wool and Pastoral Sciences B8

General
Accountancy C20
Admissions Office B23
Anatomy C27
Applied Geology F10
Applied Science (Faculty Office) F10
Appointments Office B23
Architecture (including Faculty Office) F10
Arts (Faculty Office) D20
Australian Graduate School of Management F23
Biochemistry D26
Biological Sciences (Faculty Office) D26
Biological Technology D26
Biomedical Library F23
Bookshop G17
Botany D26
Building H15
Cashier's Office B23
Centre for Medical Education Research and Development F26
Chaplains E15
Chemical Engineering F10
Chemical Technology F10
Chemistry E12
Child Minding Centre N8
Civil Engineering H20
Closed Circuit Television Centre F19
Commerce (Faculty Office) F20
Community Medicine E25
Computing Services Unit F21
Drama D9
Economics F20
Education G1
Electrical Engineering G17
Engineering (Faculty Office) K17
English C19
Examinations and Student Records B22
Fees Office B23
Food Technology F10
French C20
General Studies C20
Geography (Extension) K17
German C20
Health Administration C22
History C20
History and Philosophy of Science C19
Industrial Arts B1
Industrial Engineering J17
Institute of Languages G14
Institute of Rural Technology B8
Institute of Science F21
International Student Office (Closed Circuit Television) F19
Library B10
Library E21
Lost Property F20
Marketing F19
Mathematics F23
Mechanical Engineering J17
Medicine (Faculty Office) B27
Metallurgy E8
Microbiology D26
Mining Engineering K15
Music B11
National Institute of Dramatic Art C15
Nuclear Engineering F18
Optometry H12
Pathology C27
Pavilion (Closed Circuit Television) F19
Patrol and Cleaning Services F20
Philosophy D20
Physics K13
Physical Education and Recreation Centre (PERC) B5
Physics and Pharmacology C27
Political Science C19
Postgraduate Committee in Medical Education B27
Postgraduate Extension Studies in Medical Education B27
Postgraduate Extension Studies (Closed Circuit Television) F19
Postgraduate Extension Studies (Radio Station and Administration) F23
Psychology F23
Public Affairs Unit C23
Regional Teacher Training Centre D26
Russian D20
Science (Faculty Office) F23
Social Work (Faculty Office) F23
Sociology C20
Spanish and Latin American Studies D19
Student Amenities and Recreation E15
Student Counselling and Research E16
Student Employment C22
Student Health E15
Students' Union E4
Surveying (Extension) K17
Teachers' College Liaison Office F16
Tertiary Education Research Centre E16
Textile Technology G14
Town Planning K15
University Union (Blockhouse) G6
Wool and Pastoral Sciences B8
Zoology D26
This Handbook has been specially designed as a source of reference for you and will prove useful for consultation throughout the year.

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

The Calendar and Handbooks also contain a summary list of higher degrees as well as the conditions for their award applicable to each volume. For detailed information about courses, subjects and requirements of a particular faculty you should consult the relevant Faculty Handbook.

Separate Handbooks are published for the Faculties of Applied Science, Architecture, Arts, Commerce, Engineering, Law, Medicine, Professional Studies, Science (including Biological Sciences and the Board of Studies in Science and Mathematics), the Australian Graduate School of Management (AGSM) and the Board of Studies in General Education.

The Calendar and Handbooks are available from the Cashier's Office. The Calendar costs $3.50 (plus postage and packing, 90 cents). The Handbooks vary in cost. Applied Science, Architecture, Engineering, Law, Professional Studies, Arts, and AGSM are $2.50. Postage is 40c in each case. The exception is General Studies, which is free.

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