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Faculty of Architecture NEW

University of New South Wales—Faculty of Architecture—Periodicals
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THE UNIVERSITY OF NEW SOUTH WALES

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FOREWORD

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

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

Within the next twenty years the world must face a gigantic population explosion. Our building industry must undergo a revolution if it is to meet even the most elementary needs of the community, and our search for appropriate building forms must be related to the practical necessities of mass production on a hitherto unprecedented scale. The pressure will be felt in every field of human endeavour, but to those who choose to enter the land-use professions it will represent the greatest challenge and the greatest opportunity of all time.
CALENDAR OF DATES FOR 1972

Session 1: March 6 to May 13
  *May Recess* May 14 to May 21
  May 22 to June 17
  *Midyear Recess* June 18 to July 23

Session 2: July 24 to August 12
  *August Recess* August 13 to August 27
  August 28 to November 11

**JANUARY**
- Monday, 21: Last day for acceptance of applications to enrol by new students and students repeating first year
- Monday, 31: Australia Day—Public Holiday

**FEBRUARY**
- Tuesday, 1 to Saturday, 12: Deferred examinations
- Monday, 21: Enrolment period begins for new students and students repeating first year
- Monday, 28: Enrolment Week commences for students re-enrolling (second and later years)

**MARCH**
- Monday, 6: *Session 1 lectures commence*
- Friday, 17: Last day of enrolment for new students (late fee payable)
- Thursday, 30: Last day for later year enrolments (late fee payable)
- Friday, 31 to Monday, 3 April: Easter

**APRIL**
- Tuesday, 25: Anzac Day—Public Holiday

**MAY**
- Sunday, 14 to Sunday, 21: May Recess

**JUNE**
- Monday, 12: Queen’s Birthday—Public Holiday
- *Session 1 ends*
- Saturday, 17: Last day for acceptance of applications for re-admission after exclusion under rules governing re-enrolment
- Friday, 30:
JULY
  Monday, 24  Session 2 commences
  Thursday, 27  Foundation Day

AUGUST
  Sunday, 13 to
  Sunday, 27  August Recess

SEPTEMBER
  Friday, 15  Last day for acceptance of corrected enrolment details forms

OCTOBER
  Monday, 2  Eight Hour Day—Public Holiday
  Friday, 6  Last day for acceptance of corrected enrolment details forms (late fee payable)

NOVEMBER
  Saturday, 11  Session 2 ends
  Tuesday, 14  Examinations begin

1973

Session 1: March 5 to May 12
  May Recess May 13 to May 20
  May 21 to June 16
  Midyear Recess June 17 to July 22

Session 2: July 23 to August 11
  August Recess August 12 to August 26
  August 27 to November 10

JANUARY
  Tuesday, 30 to
  Saturday, Feb. 10  Deferred examinations

FEBRUARY
  Monday 19  Enrolment Week commences for new students and students repeating first year
  Monday 26  Enrolment Week commences for students re-enrolling (second and later years)
FACULTY OF ARCHITECTURE

Dean—Professor H. I. Ashworth
Chairman—Professor J. M. Freeland

SCHOOL OF ARCHITECTURE AND BUILDING

Professor of Architecture and Head of School
H. I. Ashworth, OBE, MA, BA(Arch) Man., FRIBA, FRAIA, FAIB, MRAPI, HonFRAIC

Professor of Architecture
J. M. Freeland, DFC, MArch DTRP Melb., FRAIA

Associate Professors
N. J. Anderson, BArch Syd., MArch Liv., DipTP Lond., FRAIA, AMTPI
E. C. Daniels, MArch N.S.W., ASTC, ARAIA
L. P. Kollar, MArch N.S.W., ASTC, ARAIA
G. Molnar, OBE, DiplIngArch T.U. Bud., FRAIA
P. Spooner, DipLD Durh., ASTC, FRAIA, ARIBA, FILA, AAILA

Senior Lecturers
R. D. Chalmers, BSc(Eng) Lond., MIEAust, AAIB, MAAS
J. Conner, DipArch (Aberd.), ARIBA, ARAIA, FRIAS
Mrs. Anita B. Lawrence, MArch N.S.W., FRAIA, MAAS
A. H. Mack, BArch Syd., ARIBA, FRAIA, AMBIM
R. O. Phillips, BArch Syd., MArch N.S.W., FRAIA, FIES(Aust)
A. E. R. Purkis, MArch N.S.W., ARIBA, FRAIA
C. W. Stevens, MArch N.S.W., DipTCP Syd., ASTC, ARAIA

Lecturers
R. E. Apperly, BArch Syd., ARAIA
N. F. Bazeley, ASTC
C. L. Bell, BA(Arch) Calif.
A. G. L. Gibson, DipArch (Birm.), MArch N.S.W., ARIBA
R. A. G. Head, ASTC, FRAIA
R. C. Irving, ARMTC, ARAIA
D. Lennon, BArch Syd., FRAIA
Lorna M. Nimmo, ASTC, FRSA
P. T. Oppenheim, BArch Cape T., MArch N.S.W., ARAIA, ARIBA
S. C. Palmer, BArch Syd., FRAIA
I. R. Patrick, ASTC, ARAIA, ARAIA
Mrs Nancy C. Peterson, BArch N.Z., MBldgSc Syd., ANZIA, ARAIA
P. R. Proudfoot, BArch Syd., MArch Penn, Rome Scholar
B. V. Wollaston, BArch Syd., FRAIA
K. J. Wyatt, BE Qld., MBldgSc Syd., MIEAust

Senior Tutors
Mrs. Zula Nittim, BArch Melb., DipCD N.S.W., FRAIA
W. A. Selle, BArch Syd., FRAIA

Administrative Assistant
C. L. Durant, SC

DEPARTMENT OF BUILDING

Associate Professor of Building and Head of Department
E. Balint, MCE Melb., MIEAust, FICE, AAIB

Senior Lecturers
C. W. Anderson, MBuild N.S.W., ASTC, FAIB
A. A. Jack, MBuild N.S.W., ASTC, AAIB

Lecturers
G. E. Levido, BBuild N.S.W.
J. F. Mooney, ASTC, FIQSA
J. G. Pohl, BArch Melb., MBldgSc PhD Syd., ARAIA, ARIBA
C. D. Smythe, MBuild N.S.W., ASTC, AAIB

SCHOOL OF TOWN PLANNING

Professor of Town Planning and Head of School
J. H. Shaw, BE DipTCP Syd., MCD Liv., PhD N.S.W., AMTPI, FRAPI, MIEAust

Senior Lecturers
E. D. Duck-Cohen, MA Oxon., BArch Liv., DipTP Lond., ARIBA, ARAIA, AMTPI, MRAPI
J. L. King, BArch MTCP Syd., FRAPI

Lecturer
K. C. Short, BA N.E., MA N’cle (N.S.W.)
GENERAL INFORMATION

ADMISSIONS OFFICE

The Admissions Office which is located in the Chancellery on the upper campus provides intending students (both local and overseas) with information regarding courses, admission requirements, scholarships and enrolment. Office hours are from 9 a.m. to 1 p.m. and 2 p.m. to 5 p.m. Monday to Friday and an evening service is provided during the enrolment period.

Applications for special admission, admission with advanced standing and from persons relying for admission on overseas qualifications should be lodged with the Admissions Office. 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, and, for further details the sections on "Rules Relating to Students" and "Enrolment Procedure for Undergraduate Courses" should be consulted.

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 had 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 discuss their proposals initially with 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 the 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 courses at the University may be obtained from the Admissions Office or the Metropolitan Universities Admissions Centre.

Persons seeking entry to First Year Courses in one or more of the
three Universities in the Sydney Metropolitan Area (Macquarie University, the University of New South Wales and the University of Sydney) are required to lodge a single application form with the Metropolitan Universities Admissions Centre, Third Floor, 13-15 Wentworth Avenue (near Museum Station), Sydney (P.O. Box 7049 G.P.O. Sydney, 2001.) On the application form provision is made for applicants to indicate preferences for courses available in any of the three Universities. Students are notified individually of the result of their applications and provided with information regarding the procedures to be followed in order to accept the offer of a place at this University and complete their enrolment at the Enrolment Bureau, Unisearch House, 221 Anzac Parade, Kensington.

GENERAL MATRICULATION AND ADMISSION REQUIREMENTS

A candidate may qualify for matriculation by:

(a) attaining passes in five recognized matriculation subjects at one New South Wales Higher School Certificate Examination or at one University of Sydney Matriculation Examination. The subjects shall include English and three subjects shall be taken at Level 2 or higher.

(b) attaining an aggregate of marks as specified by the Professorial Board in not more than five recognized subjects, such marks being co-ordinated in a manner approved by the Board.

REQUIREMENTS FOR ADMISSION TO THE FACULTY OF ARCHITECTURE

For admission to the degree courses in Architecture, Building or Town Planning a candidate must satisfy one of the following requirements:

(a) meet the general admission requirements set out above with the further pre-requisite that the subjects shall include Science and Mathematics, both passed at Level 2S or higher.*

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*This Faculty pre-requisite may be satisfied at the examination qualifying for matriculation or at a separate examination.
(b) Hold a Diploma from the New South Wales Department of Technical Education, or any other technical college which may from time to time be recognized by the University, subject to the Professorial Board being satisfied that the applicant's qualifications are sufficient for matriculation.

(c) Be a graduate of any approved university or a matriculant of any university whose requirements for entry are, in the opinion of the Professorial Board, comparable with those of the University of New South Wales.

(d) Produce evidence of at least one year's training at the Royal Military College of Australia or the Royal Australian Air Force College, or evidence of having satisfactorily completed the passing out examination of the Royal Australian Naval College.

The Professorial Board may in special cases declare any person qualified to enter a Faculty as a "provisionally matriculated student" although he has not complied with the requirements outlined above.

Intending applicants are advised to consult the University Calendar for details of approved matriculation subjects and conditions governing each of the above categories, or to contact the Admissions Office in the Chancellery at Kensington between 9 a.m. and 5 p.m. Telephone 663-0351.

RULES FOR PROGRESSION

General Rules

1. A student shall be required to pass all subjects of any year (or its two corresponding part-time stages) before being permitted to proceed to the next year or its corresponding stages except that, subject to the specific course rules set out below, one subject only may be carried with the subjects of the next higher year or its corresponding stages.

2. A student who fails in two or more subjects of a year may be required at the discretion of the Head of the School to repeat any or all the subjects of that year.

3. A student can be enrolled concurrently in the subjects of only two consecutive years, but this will not apply to students entering with advanced standing in their first year of attendance.

4. In exceptional cases the general and specific rules may be varied by the Head of the School.
Specific Course Rules

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

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

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

ENROLMENT PROCEDURE

It is the policy of the University to endeavour to admit all properly qualified applicants who have lodged applications by the appropriate closing date. In 1972, however, facilities available to the University will make it necessary to impose quotas in the Faculty of Architecture.

First Enrolments

(a) New South Wales residents already qualified for admission and persons who are applying for enrolment on the basis of qualifications gained or about to be gained outside New South Wales must lodge an application for enrolment with the Metropolitan Universities Admissions Centre, 13-15 Wentworth Avenue, Sydney (P.O. Box 7049 G.P.O., Sydney) by 29th October, 1971.

(b) New South Wales residents qualifying for admission by the 1971 New South Wales Higher School Certificate Examination or the 1972 Sydney University Matriculation Examination...
tion and those who have attended a University in New South Wales in 1971 must apply for enrolment to the Metropolitan Universities Admissions Centre, 13-15 Wentworth Avenue, Sydney (P.O. Box 7049 G.P.O., Sydney) by 21st January, 1972.

Application forms for enrolment and details of the application procedures may be obtained on application to the Registrar, P.O. Box 1, Kensington 2033.

First Year Repeat Students. First year students who failed more than half their programme at the 1971 Annual Examinations and who were not granted any deferred examinations will NOT follow the above procedure. They are required to ‘show cause’ why they should be allowed to continue in the course, and should await instructions in writing from the Registrar as to the procedure.

Students whose applications for enrolment are accepted will be required to complete their enrolment at a specified appointment time before the start of Session 1. Course details must be completed and fees paid on the day of the appointment. However, in special circumstances and provided class places are still available students may be allowed to complete their enrolment after the prescribed week subject to the payment of a late fee.

Later Year Enrolments. All students enrolling other than for the first time and not included above should enrol through the appropriate School and bring with them their notification of examination results for the previous year. This enrolment must be effected before or during the week before the commencement of Session 1 in accordance with the special arrangements made by the individual Schools.

Students who have completed the final examinations but have a thesis still outstanding are required to enrol for the period necessary to complete the thesis and to pay the requisite fees.

Miscellaneous Subject Enrolments. Students may be permitted to enrol for miscellaneous subjects (i.e. as students not proceeding to a degree or diploma) provided the Head of the School offering the subject considers it will be of benefit to the student and there is accommodation available. Only in exceptional cases will subjects taken in this way count towards a degree or diploma. Where a student is under exclusion he may not be enrolled in miscellaneous subjects unless given approval by the Professorial Board.

Final Dates for Completion of Enrolment. No enrolments will be accepted from new students after the end of the second week of
Session 1 (17th March, 1972) except with the express approval of the Registrar and the Head of the School concerned; no later year enrolments will be accepted after 31st March without the express approval of the Registrar which will be given in exceptional circumstances only.

**Post-graduate Enrolments.** Students enrolling in post-graduate courses which include formal instruction are required to attend the appropriate enrolment centre as prescribed annually in the leaflet “Enrolment Procedure for Students Re-enrolling”.

**University Union Card**

All students other than miscellaneous students are issued with a University Union Membership Card. This card must be carried during attendance at the University and shown on request.

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

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

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

New students will be issued with University Union cards at the University Union Enquiry Desk as soon as practicable after payment of fees. In the meantime, fees receipt form should be carried during attendance at the University and shown on request. A period of at least three weeks should be allowed to elapse after payment of fees before making application for the card. Cards will not be posted under any circumstances.
FEES*

Fees for Undergraduate Courses

Fees for undergraduate courses in Architecture, Building and Town Planning are assessed on a session basis.

A full-time course fee will be charged for any session where more than 15 hours’ per week instruction, etc., is involved.

(i) Full-time Course Fee (more than 15 hours’ attendance per week) ... ... $231 per session
(ii) Part-time Course Fee (over 6 hours’ and up to 15 hours’ attendance per week) ... $115.50 per session
(iii) Part-time Course Fee (6 hours’ or less attendance per week) ... ... $57.50 per session

Fees for Higher Degrees (research)

An approved applicant shall be required to pay the following fees:

(i) Qualifying Examination ... ... ... $16
(ii) Registration Fee ... ... ... ... $7
(iii) Internal Full-time Student Annual Fee ... $98
    Internal Full-time Student Session Fee ... $49
(iv) Internal Part-time Student Annual Fee ... $49
    Internal Part-time Student Session Fee ... $24.50
(v) External Student Annual Fee* ... ... ... $33
(vi) Final Examination (including Graduation fee) $49
(vii) Thesis Resubmission Fee† ... ... ... $49

Fees for Higher Degrees requiring formal study and Graduate Diplomas

(i) Registration Fee, $7.
(ii) Graduation Award of Diploma Fee, $9.
(iii) Course Fee—calculated on the basis of a session’s attendance at the rate of $12.50 per hour per week. Thus the fee for a programme requiring an attendance of 24 hours per week for the session is $300 per session.
(iv) Thesis or Project Fee, $49 (an additional fee of $33† is payable by students who have completed their final examinations for the degree or diploma but have not completed the thesis or project for which they have been previously enrolled).

*The fees quoted may be amended by Council without notice.
† Students in this category are not required to pay the Student Activities Fees or the Library Fee.
Other Fees

Students in any of the above categories are also required to pay the following fees:

<table>
<thead>
<tr>
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<tr>
<td>Library Fee*</td>
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<tr>
<td>University Union† (entrance fee)</td>
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<tr>
<td>Student Activities Fees*</td>
<td></td>
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<tr>
<td>University Union†</td>
<td>$30</td>
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<tr>
<td>Sports Association†</td>
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<tr>
<td>Students' Union†</td>
<td>$6</td>
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<tr>
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<td><strong>Total</strong></td>
<td><strong>$57</strong></td>
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Late Fees

Session 1—First Enrolments

Fees paid on the late enrolment session and before the commencement of Session 1 ... ... ... $8
Fees paid during the 1st and 2nd weeks of Session 1 $16
Fees paid after the commencement of the 3rd week of Session 1 with the express approval of the Registrar and Head of the School concerned ... $33

Session 1—Re-enrolments

Failure to attend enrolment centre during enrolment week ... ... ... ... $8
Fees paid after the commencement of the 3rd week of Session 1 to 31st March ... ... ... $16
Fees paid after 31st March where accepted with the express approval of the Registrar ... ... $33

Session 2—All Enrolments

Fees paid in 3rd and 4th weeks of Session 2 ... $16
Fees paid thereafter ... ... ... ... $33
Late lodgement of corrected enrolment details forms (late applications will be accepted for three weeks only after the prescribed dates) ... $7

*Annual fee.
†Life members of these bodies are exempt from the appropriate fee or fees.
Withdrawal from Course

Students withdrawing from a course are required to notify the Registrar in writing. Fees for the course accrue until a written notification is received.

PAYMENT OF FEES

Completion of Enrolment

All students are required to attend the appropriate enrolment centre during the prescribed enrolment period* for authorization of course programme. Failure to do so will incur a late fee of $8.

First Year students (including students repeating First Year) must complete enrolment (including fee payment) before they are issued with class timetables or permitted to attend classes. A First Year student who has been offered a place in a course to which entry is restricted and fails to complete enrolment (including fee payment) at the appointed time may lose the place allocated.

Fees should be paid during the prescribed enrolment period but will be accepted during the first two weeks of Session 1. (For late fees see above.) No student is regarded as having completed an enrolment until fees have been paid. Fees will not be accepted (i.e. enrolment cannot be completed) from new students after the end of the second week of Session 1 (i.e. 17th March, 1972), and after 31st March from students who are re-enrolling, except with the express approval of the Registrar, which will be given in exceptional circumstances only.

Payment of Fees by Session

Students who are unable to pay their fees by the year may pay by the session, in which case they are required to pay the first session's course fees and other fees for the year, within the first two weeks of Session 1. Students paying under this arrangement will receive accounts from the University for Session 2 fees. These fees must be paid within the first two weeks of Session 2.

Assisted Students

Scholarship holders or Sponsored Students who have not received an enrolment voucher or appropriate letter of authority from their

*The enrolment periods for Sydney students are prescribed annually in the leaflets “Enrolment Procedure for New Students” and “Enrolment Procedure for Students Re-enrolling“.
sponsor at the time when they are enrolling should complete their enrolment paying their own fees. A refund of fees will be made when the enrolment voucher or letter of authority is subsequently lodged with the Cashier.

Extension of Time

Any student who is unable to pay fees by the due date may apply in writing to the Registrar for an extension of time. Such application must give year or stage, whether full-time or part-time, and the course in which the applicant wishes to enrol, state clearly and fully the reasons why payment cannot be made and the extension sought, and must be lodged before the date on which a late fee becomes payable. Normally the maximum extension of time for the payment of fees is until 31st March for fees due in Session 1 and for one month from the date on which a late fee becomes payable in Session 2.

Where an extension of time is granted to a First Year student in Session 1, such student may only attend classes on the written authority of the Registrar, but such authority will not normally be given in relation to any course where enrolments are restricted.

Failure to Pay Fees

Any student who is indebted to the University and who fails to make a satisfactory settlement of his indebtedness upon receipt of due notice ceases to be entitled to membership and privileges of the University. Such a student is not permitted to register for a further session, to attend classes or examinations, or to be granted any official credentials.

No student is eligible to attend the annual examinations in any subject where any portion of his course fees for the year is outstanding after the end of the fourth week of Session 2 (18th August, 1972).

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

GENERAL CONDUCT

Acceptance as a member of the University implies an undertaking on the part of the student to observe the regulations, by-laws and other requirements of the University, in accordance with the declaration signed at the time of the enrolment.
In addition, students are expected to conduct themselves at all times in a seemly fashion. Smoking is not permitted during lectures, in examination rooms or in the University Library. Gambling is also forbidden.

Members of the academic staff of the University, senior administrative officers, and other persons authorized for the purpose, have authority, and it is their duty, to check and report on disorderly or improper conduct or any breach of regulations occurring in the University.

ATTENDANCE AT CLASSES

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

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

Applications to the Registrar for exemption from re-attendance at classes, either for lectures or practical work, may only be granted on the recommendation of the Head of the appropriate School. The granting of an exemption from attendance does not carry with it exemption from payment of fees.

Application forms for exemption from lectures are available at the Admissions Office and should be lodged there (with a medical certificate where applicable). If session examinations have been missed this fact should be noted in the application.

Where a student has failed a subject at the annual examinations in any year and re-enrols in the same course in the following year, he must include in his programme of studies for that year the subject in which he has failed. This requirement will not be applicable if the subject is not offered the following year; is not a compulsory component of a particular course; or if there is some other cause, which is acceptable to the Professorial Board, for not immediately repeating the failed subject.

Where a student has attended less than eighty per cent of the possible classes, he may be refused permission to sit for the examination in that subject.
ANNUAL EXAMINATIONS

Most annual examinations take place in November-December although some are held in the mid-year recess. Students must make application to sit for examinations by a specified date, the procedure being described in the University Calendar. Enquiries should be directed to the Examinations Branch. Examination results are posted to the term addresses of students. No results will be given by phone.

APPLICATION FOR ADMISSION TO DEGREE OR GRADUATE DIPLOMA

Application for admission to a degree or graduate diploma must be made on the appropriate form by 15th January. Applicants should ensure that they have completed all requirements for the degree or diploma, including industrial training where necessary.
STUDENT FACILITIES

LIBRARY

The University Library provides a reference and lending service for staff and students, and is open in term during day and evening sessions. There is also a Faculty reference library located within the Faculty of Architecture building.

STUDENTS' UNION

The Students’ Union is the parent student organization within the University and membership is compulsory for all registered students. It provides a wide range of cultural societies, and social facilities as well as producing a bi-weekly journal. The annual subscription is $6.

RESIDENTIAL COLLEGES

Accommodation for students is provided within the complex of the Residential Colleges of the University which comprise Basser College, Goldstein College, and the Philip Baxter College. The College complex houses 450 men and women students, as well as staff members. Tutors in residence provide tutorial assistance in a wide range of subjects.

Board and residence fees, which are payable on a session basis, amount to $22 per week. Intending students should apply in writing to the Master, Box 24, Post Office, Kensington, N.S.W., 2033, from whom further information is available.

Accommodation is also available at International House, New College (Church of England) and Warrane College (Roman Catholic). Students should write to the college of their choice for information regarding accommodation.

STUDENT EMPLOYMENT UNIT

The Student Employment Unit offers assistance in finding suitable full-time employment for evening students. It will also advise on Cadetships and permanent career employment. The unit is located
in the Chancellery, Kensington, and is open 9 a.m.-5 p.m. daily. Telephone 663-0351.

STUDENT HEALTH UNIT

A free health service under the direction of a qualified medical practitioner is available to all students during office hours. The service is diagnostic and therapeutic, but is not intended to replace the students' private doctor or the community health services available. Appointments may be arranged by personal contact or by telephoning 663-0351 ext. 2679 or 3275.

STUDENT COUNSELLING AND RESEARCH UNIT

The Student Counselling and Research Unit is located at Kensington and is normally open from 9 a.m. to 9 p.m. daily. Students wishing to avail themselves of this advisory service should arrange an appointment by 'phoning 663-0351 ext. 2600-2605.

SPORTS ASSOCIATION

In December, 1952, the University Council approved the establishment of the Sports Association as the organization to control and sponsor sporting activities within the University.

Over 30 clubs provide a wide variety of sporting activities. Membership is compulsory for all registered students, the annual subscription being $4.

UNIVERSITY REGIMENT

The University Regiment trains selected undergraduates for commissioned rank in the Citizen Military Forces, and gives military training to undergraduates.

Training is conducted throughout the year both on a part-time and full-time basis, and is planned to fit in with the University's programme of activities. Enquiries should be directed to the Adjutant, Regimental Headquarters, Day Avenue, Kensington.

N.S.W. UNIVERSITY SQUADRON

The N.S.W. University Squadron provides selected undergraduates with training which will prepare them for appointment to
commissioned rank in the Citizen Air Force. Annual training is organized to fit in with Faculty activities and consists of lectures on Air Force organization, law and administration, and appropriate technical and specialist subjects applicable to the medical, technical, radio, works and administrative flights. Enquiries should be addressed to the N.S.W. University Squadron Headquarters, cnr. City and Darlington Roads, Darlington. Tel. 51-4192.

ROYAL AUSTRALIAN NAVY

By agreement with the Department of the Navy, selected cadets of the Royal Australian Naval College at Jervis Bay who have met the appropriate faculty entrance requirements may study certain First Year University subjects at the College. Passes gained in these subjects will be accepted for credit towards a degree of the University. The courses for which this arrangement applies, for the time being, are the full-time courses in the Faculties of Applied Science, Engineering and Science. Further information may be obtained by arranging an interview with the Royal Australian Naval Liaison Officer, Professor J. S. Ratcliffe, Commander, R.A.N.V.R., at the School of Chemical Engineering. Phone 663-0351, ext. 2406.
SCHOLARSHIPS, BURSARIES AND CADETSHIPS

A wide range of scholarships and cadetships will be offered to students commencing University courses in 1972.

Except where otherwise specified, applications on the forms obtainable from the Admissions Office ('phone: 663-0351, ext. 2485) must be lodged with the Registrar, the University of New South Wales, P.O. Box 1, Kensington, within seven days of the publication of the results of the N.S.W. Higher School Certificate Examination.

UNIVERSITY SCHOLARSHIPS

The University annually awards up to fifteen scholarships tenable in degree courses to students who have matriculated at the Higher School Certificate Examination; ten scholarships to students who have completed certificate courses (Department of Technical Education); ten scholarships to students who have completed Trade Courses (Department of Technical Education); and ten scholarships to part-time students who have taken the Diploma Entrance course of the Department of Technical Education. The scholarships are tenable in any Faculty and exempt the holder from payment of course fees during the currency of the scholarship. Scholarships will be awarded in order of merit on Higher School Certificate Examination results. They may be held only by persons who do not hold another award and whose parents are permanent residents of Australia. Applications for these scholarships, on forms available from the Registrar, must be lodged with the Registrar within seven days of the publication of the award of Commonwealth University Scholarships.

COMMONWEALTH UNIVERSITY SCHOLARSHIPS

Students enrolling in first degree courses at the University are eligible. Benefits include payment of all tuition fees and other compulsory fees, and living allowances (these latter being subject to a means test). The closing date for applications is 30th September in the year immediately preceding that for which the scholarship is desired. Full particulars and application forms may be obtained from the Department of Education and Science, La Salle Building,
BURSARIES AWARDED BY THE BURSARY ENDOWMENT BOARD

A number of Bursaries tenable at the University are awarded to candidates of merit at the Higher School Certificate Examination whose family income falls within certain limits prescribed by the Bursary Endowment Board.

Applications should be made to the Secretary, Bursary Endowment Board, P.O. Box R42 Royal Exchange, N.S.W. 2000.

COMMONWEALTH SERVICE CADETSHIPS

The Commonwealth Service offers each year a number of cadetships in a wide variety of fields. British subjects, with Australian citizenship, under the age of twenty-eight years, are eligible to apply. These cadetships enable selected students to complete their courses full-time and receive a salary while doing so according to the scale below:

<table>
<thead>
<tr>
<th>Age</th>
<th>Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 18</td>
<td>$2,080</td>
</tr>
<tr>
<td>At 18</td>
<td>$2,426</td>
</tr>
<tr>
<td>At 19</td>
<td>$2,807</td>
</tr>
<tr>
<td>At 20</td>
<td>$3,154</td>
</tr>
<tr>
<td>Adult Rate</td>
<td>$3,203-$3,342</td>
</tr>
</tbody>
</table>

Fees are refunded to the cadet on a proportionate basis according to his salary.

Applicants will be required to enter into a bond undertaking to remain in the Commonwealth Public Service for a period of up to five years after graduation. Either full-time or part-time courses may be undertaken if available.

Details of vacancies at any one time may be obtained from the University’s Student Employment Officer or the Inquiry Officer, Commonwealth Public Service Inspector’s Office, Commonwealth Centre, Chifley Square, Sydney. Telephone 259-3969.
REGENT SCHOLARSHIP

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

Applications must be made on the approved form and lodged with the Registrar not later than 13th January each year.

INSTITUTE OF QUANTITY SURVEYORS OF AUSTRALIA, N.S.W. CHAPTER, SCHOLARSHIP

The Institute of Quantity Surveyors of Australia offers a scholarship to the value of $2,000, to be awarded quadrennially to a student eligible for admission to the Bachelor of Building course. The award will be made upon the recommendation of the Dean, subject to Institute concurrence, and will be paid to the successful applicant in four annual instalments of $500, commencing with initial enrolment in the B.Build. course, and thereafter at the beginning of Years 2, 3 and 4.

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

UNDERGRADUATE PRIZES

**Bachelor of Science (Architecture) Course**

Marley Australia Ltd. ... $50 Best student, Year I.

Byrne & Davidson Roll-a-Door ... $100 Best student in History of Architecture I.

Dunlop Rubber Aust. Ltd. ... $52.50 Best student, Year III.

**Architecture Degree Course**

The Joseph Auto-Hot ... $600 Best student, Final Year.

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

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

Board of Architects of N.S.W. $40 School Prize Fund — subject selected by Head of School.

Frank W. Peplow ... $24 Best student in ecclesiastic architecture.
Building Degree Course

The Australian Institute of Building $50
Byrne & Davidson Roll-a-Door $100
James Hardie & Co. Pty. Ltd. $40
Master Builders' Association of N.S.W. $200

Best student, Year III.
Best student, Year I.
To be allocated at the discretion of the Head of the School.

Town Planning Degree Course

The State Planning Authority of N.S.W. $150
General proficiency in the Fifth year of the course.

General

Chamber of Manufactures of N.S.W. $10
To be awarded at the discretion of the Head of the School.

POSTGRADUATE AWARDS

Commonwealth Postgraduate Research Awards

The Commonwealth Government each year provides a number of awards for postgraduate study and research tenable in Australian universities. Applications for awards tenable in this University must be lodged with the Registrar by 31st October each year.

Commonwealth Postgraduate Course Awards

The Commonwealth Government provides a number of awards for full-time postgraduate study in courses leading to the degree of Master by formal course work. Applications for awards tenable in this University must be lodged with the Registrar by 30th September each year.

Byera Hadley Scholarship

The Byera Hadley Scholarship is open to graduates and diplomates of all recognized Schools of Architecture in New South Wales. Candidates must be British subjects and must make application within three years of passing their final degree or diploma examinations. Value $3,000.

Sir Manuel Hornibrook Travel Grant

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

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

Housing and Neighbourhood Planning Scholarships

The Peddle, Thorp and Walker Scholarship, valued at $300 per annum, is available to assist suitable candidates attending the postgraduate course in Housing and Neighbourhood Planning.

Master Builders' Association Postgraduate Scholarship

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

Alex Rigby Award

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

Australian Acoustical Society Bursary

The Australian Acoustical Society offers a bursary valued at $350 to a student undertaking the Master of Science (Acoustics) Course.

Building Research Fellowship

A Fellowship, valued at $4,000 per annum and tenable for two years, is available for full-time, postgraduate study and research for the degree of Master of Building or Doctor of Philosophy in the Faculty of Architecture. The Fellowship is financed from a Fund built up by contributions from a group of companies in the building industry. Appointment shall be made upon the recommendation
of the Dean, but initial enquiries should be directed to the Head of the Department of Building.

**Timber Industry Scholarship**

The N.S.W. Timber Advisory Council, the Timber Development Association of N.S.W., and the Timber and Building Material Merchants’ Association jointly provide a scholarship for full-time, postgraduate study and research into problems associated with the use of timber in building. The scholarship has a value of $2,600 p.a., and is tenable for two years. The Scholar shall be eligible for, and shall register as a candidate for the degree of Master, or Doctor of Philosophy, in the Faculty of Architecture. The award of the Scholarship shall be made upon the recommendation of the Dean.
UNDERGRADUATE COURSES

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

THE COURSE IN ARCHITECTURE

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

The early years of the course provide fundamental training in the basic sciences underlying building technology in order to familiarize students with the new materials, methods and ideas characteristic of present-day architecture, and to prepare the way for their later, more advanced education. Instruction in the principles of Mathematics and Physics is included as a basis for studies in building science and structural design. Concurrently the students' creative abilities are developed by progressive exercises in imaginative design, which commence as simple projects but become more complex in each successive year.

In the latter part of the course architectural design assumes major importance, for it is through this subject that students learn to integrate all the contributory training they have received. However, the common core subjects taken by all students are handled in such a manner as to allow a student to concentrate on those aspects which most interest him. In addition, a wide variety of elective subjects allows the student to choose so that he may extend his study either in breadth or depth.

31
The 1968 Course

This course was introduced for the first time in 1968 and is referred to as the 1968 course. The course which operated in 1967 and before is referred to as the 1967 course, a description and details of which are given in the Calendar of the University of New South Wales 1967. The 1968 course is being implemented progressively, i.e. Year 1 in 1968, Years 1 and 2 in 1969, Years 1, 2 and 3 in 1970 etc.

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

Subjects in the 1967 course will be phased-out by substituting approximately equivalent subjects from the 1968 course. Students enrolled in the 1967 course should refer to the Professor of Architecture for their programmes of study. Students enrolled in the 1967 course will be required to complete their studies in the number of years/stages remaining in their course in 1970, plus one.

General Description of the 1968 Course

The normal course in Architecture consists of six years of which all except the fourth year require full-time attendance at the University. On satisfactory completion of the first three years a student is awarded the degree of Bachelor of Science (Architecture). The fourth year of the course requires no formal attendance at the University. In this period the student is required to obtain practical experience (see Practical Experience below). Admission to the fifth and sixth years is selective and is based upon the ability revealed and the performance achieved up to the awarding of the first degree at Pass level.* On satisfactory completion of the fifth and sixth years of the course the student is awarded a second degree of Bachelor of Architecture (B.Arch.).

The Part-time Programme

There is only one course in Architecture in respect of subjects, content, examinations and standards, which in the first three years leading to the B.Sc.(Arch.) and to meet the varying needs of students, may be taken on an attendance timetable which is wholly or largely

*Applications for admission to the B.Arch. course must be lodged with the Registrar not later than 30th November in the year preceding that in which enrolment is sought.
full-time or wholly or largely part-time. The part-time programme requires up to three half-days’ attendance each week during the day with the balance of the attendance in the evenings.

The subjects of two part-time stages are equivalent in all ways to those of one full-time year. At the end of the first or second year, or the second and fourth stages (i.e. Stages 1B and 2B), a student may elect to transfer to a different attendance programme. The fifth and sixth years of the course are available by full-time attendance only.

**Practical Experience**

During the whole of the part-time period of the programme being followed a student is required to be employed on architectural work under the supervision of an approved architect. For this purpose an architect registered under any Australian State Architects’ Registration Act is considered to be an approved architect. Students wishing to gain their practical experience under the supervision of any other person must submit the circumstances to the Professor of Architecture for approval.

**Honours**

Honours are awarded on the basis of quality of performance during the fifth and sixth years of the course and in accordance with current Faculty regulations.

**Registration and Professional Recognition**

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. No special requirements apply to persons who graduated prior to 1st July, 1971, but persons graduating subsequent to 1st July, 1971, must:

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

(b) pass a special examination in Architectural Practice.

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

The foregoing is a general statement, and students are strongly advised to obtain further particulars from the Institutes and the Board of Architects of New South Wales.
## Bachelor of Science (Architecture)—Course

### B.Sc.(Arch.)

**Hours per week for 2 sessions**

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>Full-Time Programme</th>
<th>Part-Time Programme</th>
<th>Stage 1A</th>
<th>Stage 1B</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.111</td>
<td>Design I ............</td>
<td></td>
<td>1</td>
<td>1</td>
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<tr>
<td>11.121</td>
<td>History of Architecture I ...</td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>11.131</td>
<td>Graphic Communication I</td>
<td></td>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>11.131/1</td>
<td>Graphic Communication I, Part 1</td>
<td></td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>11.131/2</td>
<td>Graphic Communication I, Part 2</td>
<td></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11.211</td>
<td>Construction I .......</td>
<td></td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>11.221</td>
<td>Structures I ..........</td>
<td></td>
<td>3</td>
<td>3</td>
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<tr>
<td>11.271</td>
<td>Building Science I ...</td>
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<td>11.271/1</td>
<td>Building Science I, Part 1</td>
<td></td>
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<tr>
<td>11.271/2</td>
<td>Building Science I, Part 2</td>
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<td>6</td>
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<td></td>
<td></td>
<td>28</td>
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<tr>
<th>YEAR 2</th>
<th>Stage 2A</th>
<th>Stage 2B</th>
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<tbody>
<tr>
<td>11.112</td>
<td>Design II</td>
<td>7</td>
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<tr>
<td>11.122</td>
<td>History of Architecture II</td>
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<tr>
<td>11.132</td>
<td>Graphic Communication II</td>
<td>6</td>
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<tr>
<td>11.212</td>
<td>Construction II</td>
<td>6</td>
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<td>11.222</td>
<td>Structures II</td>
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<td>11.272</td>
<td>Building Science II</td>
<td>2</td>
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<td></td>
<td>General Studies Elective</td>
<td>1½</td>
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<td></td>
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<tr>
<td></td>
<td>27</td>
<td>13</td>
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</table>

<table>
<thead>
<tr>
<th>YEAR 3</th>
<th>Stage 3A</th>
<th>Stage 3B</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.113</td>
<td>Design III</td>
<td>7</td>
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<tr>
<td>11.123</td>
<td>History of Architecture III</td>
<td>1</td>
</tr>
<tr>
<td>11.133</td>
<td>Graphic Communication III</td>
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<td>11.213</td>
<td>Construction III</td>
<td>8</td>
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<tr>
<td>11.213/1</td>
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<td>Construction III, Part 2</td>
<td>0</td>
</tr>
<tr>
<td>11.223</td>
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<td>11.273</td>
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<td>11.331</td>
<td>Estimating and Specifications</td>
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<td></td>
<td>General Studies Elective</td>
<td>1½</td>
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<tr>
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<td></td>
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<td></td>
<td>27</td>
<td>13½</td>
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THE UNIVERSITY OF NEW SOUTH WALES

BACHELOR OF ARCHITECTURE—COURSE
(B.Arch)

<table>
<thead>
<tr>
<th>YEAR 4</th>
<th>Hours per week for 2 sessions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Practical Experience*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>YEAR 5</th>
<th>Hours per week</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>SESSION 1</td>
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<tr>
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<tr>
<td>11.151</td>
<td>Architecture A</td>
</tr>
<tr>
<td>11.171A</td>
<td>Thesis‡</td>
</tr>
<tr>
<td>36.411</td>
<td>Town Planning</td>
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</table>

<table>
<thead>
<tr>
<th>YEAR 6</th>
<th>Hours per week for 2 sessions</th>
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</thead>
<tbody>
<tr>
<td></td>
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<tr>
<td>11.152</td>
<td>Architecture B</td>
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<tr>
<td>11.321</td>
<td>Professional Practice</td>
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<tr>
<td></td>
<td>Electives*</td>
</tr>
<tr>
<td>11.171B</td>
<td>Thesis‡</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Students who have satisfactorily completed at least three years of part-time study (at least one of which shall be equivalent to Stage III B) and have obtained approved practical experience during the whole of the period of part-time attendance shall not be required to complete the fourth year of the Bachelor of Architecture degree course.

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

<table>
<thead>
<tr>
<th>Hours per week for one session</th>
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<tbody>
<tr>
<td></td>
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<tr>
<td>11.224/1 Structures A1</td>
</tr>
<tr>
<td>11.224/2 Structures A2</td>
</tr>
<tr>
<td>11.226 Properties of Materials</td>
</tr>
<tr>
<td>11.227 Behaviour of Materials</td>
</tr>
<tr>
<td>11.811/1 Theory of Architecture A1</td>
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<tr>
<td>11.811/2 Theory of Architecture A2</td>
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<tr>
<td>11.821/1 Construction A1</td>
</tr>
<tr>
<td>11.821/2 Construction A2</td>
</tr>
<tr>
<td>11.841/1 Building Science A1</td>
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<td>11.841/2 Building Science A2</td>
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<tr>
<td>11.851/1 Historical Research A1</td>
</tr>
<tr>
<td>11.851/2 Historical Research A2</td>
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<tr>
<td>Both parts must be taken</td>
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<tr>
<td>11.871/1 Landscape Design A1</td>
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<td>11.871/2 Landscape Design A2</td>
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<tr>
<td>36.412 Town Planning A</td>
</tr>
</tbody>
</table>
FACULTY OF ARCHITECTURE

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

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

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

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

(e) Hours per week for one session

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<tr>
<th>Course Code</th>
<th>Subject Description</th>
<th>Hours</th>
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<td>11.872/2</td>
<td>Landscape Design B2</td>
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†The subject of the thesis will be submitted by the student for the approval of the Head of the School at the beginning of fifth year and submitted for examination towards the end of the sixth year. Staff supervision will be available for one hour per week.

DEGREE COURSE IN BUILDING—BBUILD

The course in Building provides a basic training for management and executive careers in the building industry. It aims to develop in the student a sound conception of the related requirements and functions of the building-owner, the architect, the structural and mechanical engineers, the materials manufacturer and the builder in the process of planning, detailing and erecting buildings.

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

General Description of the Course

The normal full-time course leads to the degree of Bachelor of Building (B.Build.), and covers four years, three years being full-time attendance and the fourth year part-time.
The Building degree course also provides University training in Quantity Surveying.

The Part-time Programme

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

The subjects of two part-time stages are equivalent in all ways to one full-time year. At the end of the first and second years or the second and fourth part-time stages a student may elect to transfer to a different attendance programme.

Practical Experience

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

Honours

In the Bachelor of Building degree Honours are awarded 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 award of the degree, Bachelor of Building, is recognized for admission to membership by the Australian Institute of Building.

Course Structure

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

Details of the "old" course may be found in the 1971 Calendar.
## BUILDING DEGREE COURSE
### Bachelor of Building

**Hours per week for 2 sessions**

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<thead>
<tr>
<th></th>
<th>Full-Time Programme</th>
<th>Part-Time Programme</th>
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<tr>
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### Hours per week for 2 sessions

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<tr>
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<td>Structures III</td>
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<td>11.283</td>
<td>Building Science IIIA</td>
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<td>11.712</td>
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<td>11.722</td>
<td>Estimating II</td>
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<td>11.733</td>
<td>Management III</td>
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<td>Law for Builders I</td>
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### Hours per week

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<td>Construction IVA</td>
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</table>
As town planning is concerned with determining the best use of land and creating a better environment, students in this course are trained in aesthetic and civic design principles as well as in land-use studies. A particular feature of the course is the emphasis on the study of new techniques in planning strategies, decision-making, programming, budgeting and implementing of development plans; on urban research and on the inter-action of land uses and transportation.

General Description of the Course

The course is of five years’ duration. The first and second years are full-time, the third and fourth years part-time requiring up to three half-days attendance with the balance in the evenings, and the fifth year full-time.

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

Practical Experience

For the two part-time years 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.
# Town Planning Degree Course

## Bachelor of Town Planning

<table>
<thead>
<tr>
<th>Year</th>
<th>Course Title</th>
<th>Hours per week</th>
<th>Session 1</th>
<th>Session 2</th>
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<tr>
<td><strong>Year 2</strong></td>
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YEAR 5

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<td>36.481</td>
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<td>36.491</td>
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25  25

EXTENSION COURSES

The School of Architecture and Building from time to time conducts extension courses in specialist fields of study related to architecture and building. These courses are normally open to qualified members of the various land-use professions, upon payment of a fee appropriate to the length of the particular course.
POSTGRADUATE STUDY

HIGHER DEGREES—RESEARCH

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

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

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

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

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

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

An application to register as a candidate for the degree of Master of Architecture, Master of Building, Master of Landscape Architecture or Master of Town Planning shall be made on the prescribed form, which shall be lodged with the Registrar at least one full calendar month before the commencement of the session in which the candidate desires to register.

POSTGRADUATE COURSES

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

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

Duration

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

Admission Requirements

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

1) A candidate for admission holding the degree of Bachelor of Science (Architecture) of the University of New South Wales, or equivalent qualification will be required to complete a qualifying year, consisting of qualifying subjects marked,* before admission to the course.

2) A candidate for admission holding the degree of Bachelor of Architecture, Bachelor of Building, Bachelor of Science or Bachelor of Engineering of the University of New South Wales, or equivalent qualification, may be required to complete certain qualifying subjects before admission to the course. Generally candidates from engineering or science faculties will be required to complete the 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 timetabled. Session 1 provides 7 credit points and Session 2, 9 credit points. Each student must obtain 16 credit points before being permitted to enrol in Year 2. Year 2 consists of a compulsory Graduate Project (6 credit points total) and electives (4 credit points each). Each student must complete at least 3 electives. Thus the minimum number of credit points for the award
of the degree is \((16 + 6 + 12) = 34\). The number of electives offered in any session will depend on student numbers and interests.

**MASTER OF SCIENCE (ACOUSTICS) COURSE**

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<th>QUALIFYING YEAR</th>
<th>Hours per week</th>
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</thead>
<tbody>
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<tr>
<td>*1.281G Vibration and Wave Theory I</td>
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<tr>
<td>*1.287G Vibration and Wave Theory II</td>
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<tr>
<td>\†11.990G Construction, Contracts and Documentation I</td>
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</tr>
<tr>
<td>\†11.991G Construction, Contracts and Documentation II</td>
<td>0</td>
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<tr>
<td>*†11.970G Computer Techniques</td>
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<td>*†11.974G Experimental Techniques</td>
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*† See admission requirements.

**YEAR 1**

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<td>1.282G</td>
<td>Acoustic Theory</td>
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<td>1.283G</td>
<td>Acoustic Measuring Systems</td>
<td>1</td>
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<td>1.284G</td>
<td>Electro-acoustics</td>
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<td>1.286G</td>
<td>Acoustic Laboratory</td>
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<tr>
<td>5.651G</td>
<td>Mechanical Noise Sources</td>
<td>2</td>
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<tr>
<td>11.992G</td>
<td>Acoustics of Speech and Music</td>
<td>1</td>
</tr>
<tr>
<td>11.993G</td>
<td>The Ear and Hearing</td>
<td>1</td>
</tr>
<tr>
<td>11.994G</td>
<td>Hearing Conservation</td>
<td>0</td>
</tr>
<tr>
<td>11.995G</td>
<td>Community Noise</td>
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</table>

**YEAR 2**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
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</thead>
<tbody>
<tr>
<td>11.996G</td>
<td>Graduate Project (equivalent hours)</td>
<td>3</td>
</tr>
<tr>
<td>\ Electives†</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>1.285G</td>
<td>Acoustical Systems and Structures</td>
<td>4</td>
</tr>
<tr>
<td>5.652G</td>
<td>Noise Suppression Techniques</td>
<td>4</td>
</tr>
<tr>
<td>11.997G</td>
<td>Auditorium Acoustics</td>
<td>4</td>
</tr>
<tr>
<td>11.998G</td>
<td>Airborne and Impact Noise Control in Buildings</td>
<td>0</td>
</tr>
<tr>
<td>11.999G</td>
<td>Advanced Acoustics of Speech and Music</td>
<td>0</td>
</tr>
</tbody>
</table>

*† In addition to formal course work, there will be occasional field excursions.
† The electives offered in any session will depend on circumstances.
This two year, part-time course has been designed to provide opportunities for advanced study in the science of construction. It allows a certain amount of specialization in three inter-related areas:

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

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

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

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

Admission Requirements

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

BSc (Arch) graduates of the University of New South Wales must complete a preparatory year. This consists of a programme totalling a maximum of 9 hours per week for two sessions, selected from the following subjects with the approval of the Faculty Higher Degree Committee.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.203</td>
<td>Construction IIIA (part only)</td>
<td>3</td>
</tr>
<tr>
<td>11.732</td>
<td>Management II</td>
<td>2</td>
</tr>
<tr>
<td>11.733</td>
<td>Management III (part only)</td>
<td>1</td>
</tr>
<tr>
<td>14.001</td>
<td>Introduction to Accounting</td>
<td>2</td>
</tr>
<tr>
<td>14.051</td>
<td>Law for Builders I</td>
<td>2</td>
</tr>
<tr>
<td>14.052</td>
<td>Law for Builders II</td>
<td>1</td>
</tr>
</tbody>
</table>
Course Structure

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

YEAR 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SESSION 1</th>
<th>SESSION 2</th>
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<tbody>
<tr>
<td>11.970G</td>
<td>Computer Techniques</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>11.971G</td>
<td>Building Contracts and Documentation</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>11.972G</td>
<td>Building Economics and Property</td>
<td>2</td>
<td>0</td>
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<tr>
<td></td>
<td>Valuation</td>
<td></td>
<td></td>
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<tr>
<td>11.973G</td>
<td>Operations Planning I</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>11.974G</td>
<td>Experimental Techniques</td>
<td>0</td>
<td>2</td>
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<tr>
<td>11.975G</td>
<td>Graduate Project</td>
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</table>

Credit points: 7

YEAR 2

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SESSION 1</th>
<th>SESSION 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.975G</td>
<td>Graduate Project</td>
<td>2</td>
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</table>

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

YEAR 2

Group (a)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>11.976G</td>
<td>Office and Personnel Management</td>
<td>2</td>
</tr>
<tr>
<td>11.977G</td>
<td>Architectural Programming</td>
<td>2</td>
</tr>
<tr>
<td>11.978G</td>
<td>Estate Management</td>
<td>2</td>
</tr>
<tr>
<td>11.979G</td>
<td>History of Building</td>
<td>2</td>
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</table>

Group (b)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.980G</td>
<td>Advanced Construction I</td>
<td>4</td>
</tr>
<tr>
<td>11.981G</td>
<td>Advanced Construction II</td>
<td>4</td>
</tr>
<tr>
<td>11.982G</td>
<td>Advanced Equipment and Services</td>
<td>2</td>
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</table>

Group (c)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>11.983G</td>
<td>Operations Planning II</td>
<td>4</td>
</tr>
<tr>
<td>11.984G</td>
<td>Cost Planning and Analysis</td>
<td>2</td>
</tr>
<tr>
<td>11.985G</td>
<td>Computer Applications I</td>
<td>2</td>
</tr>
<tr>
<td>11.986G</td>
<td>Computer Applications II</td>
<td>2</td>
</tr>
</tbody>
</table>

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

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

Admission Requirements

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

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

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

Course Structure

<table>
<thead>
<tr>
<th></th>
<th>SESSION 1</th>
<th>SESSION 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>YEAR 1—PART-TIME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.910G History of Landscape Design</td>
<td>1</td>
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<tr>
<td>11.912G Landscape Engineering</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>25.131 Geology*</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>43.211G Botany and Ecology*</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>YEAR 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.913G Theory and Practice of Landscape</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>11.914G Forestry and Horticulture*</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>11.915G Landscape Design</td>
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<td>4</td>
</tr>
</tbody>
</table>

*Practical work will include a number of Saturday excursions.

SCHOOL OF TOWN PLANNING

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

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

The course is normally conducted upon a two-year, part-time programme, but may be offered as a one-year full-time course depending upon demand.

Admission Requirements
A candidate shall be—
(i) a graduate in Architecture of the University of New South Wales; or
(ii) a person with such other qualifications as may be approved by Faculty.

Course Structure

<table>
<thead>
<tr>
<th>YEAR 1—PART-TIME</th>
<th>Hours per week</th>
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<tbody>
<tr>
<td></td>
<td>SESSION 1</td>
</tr>
<tr>
<td>36.920G Theory of Neighbourhood Planning</td>
<td>2</td>
</tr>
<tr>
<td>36.921G Practice of Neighbourhood Planning</td>
<td>3</td>
</tr>
<tr>
<td>36.923G Land and Housing Economics</td>
<td>0</td>
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<tr>
<td>36.924G Urban Sociology</td>
<td>2</td>
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<table>
<thead>
<tr>
<th>YEAR 2</th>
<th>SESSION 1</th>
<th>SESSION 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>36.921G Practice of Neighbourhood Planning</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>36.922G Communications and Public Utilities</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>36.925G Housing Law and Administration</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>6</td>
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</tr>
</tbody>
</table>

Enquiries
Initial enquiries regarding postgraduate courses should be addressed to:
The Dean,
School of Architecture and Building,
University of New South Wales,
P.O. Box 1,
Kensington,
New South Wales, Australia, 2033.
BUILDING RESEARCH LABORATORY

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

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

The following brief synopses are intended to outline the scope of individual subjects. The subjects are not arranged numerically but are grouped in the following categories: Design, History of Fine Arts and Architecture, Construction, Structures, Building Science, Graphic Communication, Management, Town Planning, Theses and Postgraduate subjects.

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

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

DESIGN

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

11.111 Design I


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

TEXTBOOK

11.112 Design II

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

Inter-relation of people within small groups. Relationship between internal and external spaces. Design of small and simple multi-cell buildings. Influence of climate, structure and materials on architecture.
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 development of the concept of the totality of architecture and an awareness of the inter-relation of the multiplicity of factors and influences which determine the final result. Problems in design within the concept of total architecture, involving the creation and control of the human environment, its construction and implementation in all aspects.

11.152 Architecture B
The development of 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 environmental design and the associated questions of economics and services.

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

11.811/1 Theory of Architecture A1 (Elective)
The process of synthesis in architectural creation. Sources and inter-relation of form. Economy and priorities. Decision-theory. Problem models and the process of synthesis. Inter-relation between the whole and the part and between its formal characteristics and its physical manifestation.

11.811/2 Theory of Architecture A2 (Elective)
The philosophical and spiritual intentions in architecture. Questions of and relationships between honesty and falsehood in architecture; legitimate and false styles; the original and the copy; architectural ethics. Philosophy of aesthetics, and the qualities of perfection, goodness, truth and beauty as reflected in great architecture.
11.812/1  Theory of Architecture B1 (Elective)
Pre-requisites: 11.811/1 Theory of Architecture A1 and
11.811/2 Theory of Architecture A2

The causal, ideal and physical manifestation order in relation to architecture. Metaphysical questions and architecture. Geometry re-examined as the basis of spatial order.

11.812/2  Theory of Architecture B2 (Elective)
Pre-requisites: 11.811/1 Theory of Architecture A1 and
11.811/2 Theory of Architecture A2

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

11.871/1  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.

11.871/2  Landscape Design A2 (Elective)


11.872/1  Landscape Design B1 (Elective)

Landscape Rehabilitation. Landscape problems attendant upon our increasingly urbanized society—industrial blight—extractive industries, commercial forestry, foreshore protection and reinstatement, pollution and regeneration. Control and management of national parks and outdoor recreational areas.

11.872/2  Landscape Design B2 (Elective)

Urban Landscaping. Street planting in urban and suburban locations. City parks, malls, plazas, and roof-top gardens. Street furniture and paving. Micro-climatic phenomena associated with the urban environment.

HISTORY OF FINE ARTS AND ARCHITECTURE

In these subjects fine arts and architecture are treated as the expression of a cause/effect relationship, and the student is guided in understanding why and how artistic expression and the man-made environment have developed during the history of Western civilization.
11.011H History of Fine Arts

An outline of the development of nineteenth and twentieth century painting and sculpture. Follows the movements concerned in the development of modern art from the stylistic background of the European tradition to contemporary works. Development of some phases of painting and sculpture during the Ancient, Medieval and Renaissance epochs. The influence of religious, economic and social factors on the more important works of the period.

11.021H History of Architecture

The role of the architect; architecture as an art, a science, and a profession; the origins of architectural form in ancient civilizations, and the development of these forms throughout the Middle Ages and the Renaissance; the effects of the Industrial Revolution and its aftermath, and the growth of modern architecture; the development of an Australian idiom in architecture and building.

11.031H History of Fine Arts and Architecture

An introduction to the history and aesthetics of the architecture, painting and sculpture of the Western World. It comprises the subjects 11.011H and 11.021H.

TEXTBOOKS—11.011H and 11.031H


11.121 History of Architecture I

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

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

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

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

11.122 History of Architecture II

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

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

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

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

A history of architecture in Australia, in which the general studies of first and second years find more particular application.

(a) The historical, human and environmental context of Australian architecture.
(b) Architecture from the foundation of the colony to the end of World War I.
(c) Architecture since World War I.

TEXTBOOKS HISTORY OF ARCHITECTURE I, II, and III


11.851/1 Historical Research A1
11.851/2 Historical Research A2 (Electives)

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

11.852/1 Historical Research B1
11.852/2 Historical Research B2 (Electives)

Pre-requisites: 11.851/1 Historical Research A1
11.851/2 Historical Research A2

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

CONSTRUCTION

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

The theoretical lecture material is reinforced by visits to factories and building works and is applied and integrated with design in the studio and in special projects.

11.201 Construction IA

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

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

**11.201/1 Construction IA, Part 1**
**11.201/2 Construction IA, Part 2**

The syllabus of Construction IA taken over two years.

**11.202 Construction IIA**

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

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

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

**11.202/1 Construction IIA, Part 1**
**11.202/2 Construction IIA, Part 2**

The syllabus of Construction IIA taken over two years.

**11.203 Construction IIIA**

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

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

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

(b) *Building Services.* Integration of mechanical services; sanitary plumbing systems suitable for multi-storey buildings; air-conditioning loads, psychrometrics, central and package plant and air distribution; electricity supply and distribution, systems of wiring and trunking; fire fighting services and equipment; electric lifts—main drive and power systems, electro-hydraulic lifts, control systems, equipment and installation; escalators and moving walks; mechanical garaging; communication systems, telephone, fire alarms, intercoms, pneumatic tubes and mech-
11.203/1  Construction IIIA, Part 1
11.203/2  Construction IIIA, Part 2

The syllabus of Construction IIIA taken over two years.

11.204  Construction IVA

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

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

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

TEXTBOOKS—11.201, 11.202, 11.203 and 11.204

11.211  Construction I

Unit shelter for simple activity: single storey: level site.

(a) Single roofs: solid and framed walls: footings. Stones, bricks, tiles, slates, sheets, timber, lime and cement.


(c) Windows, ventilators. Glass, metals. Cold water supply, waste and rain water disposal.

11.212  Construction II

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


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

c) Roof coverings; lighting. Introduction of steel and concrete as structural materials; simple trusses and connections; single span r.c. 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.

(a) Framing systems and floors. Water and drainage services, fire protection and fire-fighting. Lifts and escalators.

(b) Roofs, claddings, internal provisions. Central conditioning plant. Light fittings. Integration of services.

(c) Basements, tanking, footings. Additions and alterations, adjustable and demountable structures. Procedures, economics. Communication systems.

11.213/1 Construction III, Part 1
The same theoretical and lecture material and specifically Construction assignments as for Construction III.

11.213/2 Construction III, Part 2
The Construction assignments of Construction III taken in connection with Design III.

TEXTBOOKS—11.211, 11.212 and 11.213


11.761 Soil Mechanics for Building

11.821/1 Construction A1 (Elective)
The study in depth of the principles of construction in relation to stability, loadings, safety and special applications of services. Topics also include principles of earthquake resistant construction, non-structural function of the building fabric, movement in buildings; plant and erection techniques.
11.821/2  Construction A2 (Elective)
A study of methods and research into new forms of construction, modular co-ordination, standardization and tools of research. Topics include flat-plate and lift-slab construction, prefabrication, construction planning and management, computer application to communication, erection, quality and management control.

11.822/1  Construction B1 (Elective)
Experimental investigation and research and interpretation of the results in an elected construction subject. Seminars for the exchange of discovered information. The topics will concentrate on development methods and techniques in construction including research tools, computers and model analysis.

11.822/2  Construction B2 (Elective)
Current and future trends in construction. Topics include limitation and disposal of waste, mechanical devices in building, industrialized building, construction planning and control, maintenance planning and replacement policy. Seminars to discuss results of research in Construction B1.

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

11.221  Structures I

TEXTBOOK

11.222  Structures II

TEXTBOOKS
11.223 **Structures III**


**TEXTBOOKS**


Standards Association of Australia:


11.224/1 **Structures A1** (Elective)

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

11.224/2 **Structures A2** (Elective)

A similar study to that of Structures A1, but encompassing large spans, space frames and shells.

**TEXTBOOK**


11.225/1 **Structures B1** (Electives)

11.225/2 **Structures B2** (Electives)

Studies in depth by model and physical analysis of the design of basic architectural structures with an extension of the study into advanced and complex structures.

11.226 **Properties of Materials** (Elective)

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

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

BUILDING 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 Building Science I

Mathematics

(a) Elementary computer programming; differentiation and integration of simple functions; the definite integral.

(b) Application to curve sketching, arc lengths, areas and volumes, moments of inertia, fluid pressures.

(c) Plane curves; conics and surfaces of revolution; quadric surfaces; ruled and warped surfaces; convex bodies; spherical trigonometry; projective configurations.

Physics


(b) Electrostatics, Electromagnetism and D.C. Circuits: Coulomb’s Law, electric field, electric potential, capacitance. Electrical energy sources, conductors, resistivity, atomic view of conduction, e.m.f., Kirchhoff’s Law. Magnetic induction, torque on a coil in magnetic field, moving coil meter, Wheatstone Bridge, potentiometer, resistive-capacitive circuits, inductance, Faraday’s Law, resistive-inductive circuits.

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

TEXTBOOKS


11.272 Building Science II
(a) The sky as a sphere; map projections as representations of a spherical surface; geometrical aspects of natural lighting and sun control. Sky factors, Waldram diagrams, daylight protractors.
(b) Sun position and its representation by solar charts; radiant energy from the sun; design of hoods; louvres and sun control devices.
(c) Thermal properties of buildings, heat transmission and insulation. Hygro-metry and condensation. Principles of heating, cooling and natural ventilation.

TEXTBOOK

11.273 Building Science III
(a) The lighting of buildings; the eye and vision; general requirements of good lighting. Natural lighting from non-uniform skies; inter-reflected light. Use of charts, tables and other design aids. Artificial lighting; light sources and their spectral characteristics. Luminaires and light control; the lumen method of design. Quality of lighting and glare control.
(b) Fire in buildings; fire load; fire resistance of buildings.
(c) Acoustics, basic concepts and units. The ear and hearing. Transmission of air-borne and structure-borne sound; methods of noise control and sound insulation. Design of auditoria including analysis of shape and control of reflected sound; sound absorbent materials. Simple sound reinforcement systems. Application to various building types.

TEXTBOOKS

11.281 Building Science IA
The syllabus of Building Science I (11.271) with additional lecture material:
(a) Mathematics B: Elementary computer programming; introduction to numerical methods; dimensional analysis.
(b) Building Science: The thermal environment, physiological aspects, indices of thermal stress, thermal comfort factors, introduction to thermal control by building design; natural ventilation; heat flow and insulation, conditions of heat flow, thermal conductivity, steady state heat transfer, insulation and insulating materials, moisture transfer and condensation, removal of heat by ventilation; natural lighting, units of lighting, minimum light levels, outdoor illumination levels, the daylight factor, measurement of daylight and use of models, colour; computer applications.

11.281/1 Building Science IA, Part 1
11.281/2 Building Science IA, Part 2
The syllabus of Building Science IA taken over two years.
TEXTBOOKS

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

11.282/1 Building Science IIA, Part 1
11.282/2 Building Science IIA, Part 2
The syllabus of Building Science IIA taken over two years.

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

11.841/1 Building Science A1 (Elective)
*Lighting*. Previous work in this area is taken in depth in the areas of apparent brightness and of scalar vector illumination as indices of the modelling and form-revealing character of lighting. Lighting equipment, economics of lighting and integration with air-conditioning.

TEXTBOOK

11.841/2 Building Science A2 (Elective)
(a) *Acoustics and Sound Insulation*. Emphasizes the practical application of theoretical material. Principal topics include sound insulation and noise reduction in buildings and the use of acoustic models in auditoria design;
or
(b) *Computer-Aided Design*. The use of the computer and the availability of programmes in architecture including computer graphics. Queues and
linear programming and the techniques of information storage and retrieval. Practice in the production and application of programmes.

TEXTBOOK
Lawrence, A. B. *Architectural Acoustics*. Elsevier.

11.842/1 Building Science B1  
11.842/2 Building Science B2  

(Electives)

Pre-requisites: 11.841/1 Building Science A1 or  
11.841/2 Building Science A2

Supervised individual or group student research into an approved topic within the Building Science field.

**GRAPHIC COMMUNICATION**

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

**11.131 Graphic Communication I**


11.131/1 Graphic Communication I, Part 1;  
11.131/2 Graphic Communication I, Part 2

The syllabus of Graphic Communication I taken over two years.

**11.132 Graphic Communication II**

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

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

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

**11.133 Graphic Communication III**

Further extension of Graphic Communication II with special emphasis on analytical observation and the capacity to construct visualization and co-ordination drawings.
11.171 Graphic Communication IA
The syllabus of Graphic Communication I (11.131) with the exclusion of Freehand Drawing.

11.171/1 Graphic Communication IA, Part 1
11.171/2 Graphic Communication IA, Part 2
The syllabus of Graphic Communication IA taken over two years.

TEXTBOOKS—11.131, 11.132 and 11.133
De Sausmarez, M. Basic Design: the Dynamics of Visual Form. Reinhold.
Hollis, H. F. Teach Yourself Perspective Drawing. E.U.P.

MANAGEMENT

11.311 Specifications and Reports
(a) 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; evolution of specifications; specification as a contract, legal and working document; relationship to Bill of Quantities and drawings; schedules; reference material; specification writing; “Master” specifications; outright and performance specifications; prime cost and provisional sums; specification sections, clauses and language; preparation and format of specifications; 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 works; specification assignment.
(b) Reports
The presentation of technical information, both written and graphical.
The nature of communication; preparation of draft for a report; presentation and structure of reports; style and punctuation.

TEXTBOOKS

11.321 Professional Practice
The ethical, legal and common standards and responsibilities governing the relations between the architect, the client and the builder; office practices and procedures; financial aspects of the practice of architecture and building.
(a) Historical background; professional institutions; code of ethics; conditions of engagement; scale of professional charges; specialist consultants.
(b) The Architects’ Registration Act of New South Wales. Laws of contract;
types of contract; articles of agreement; relationship of contracting parties and the architect; architects' responsibilities; negligence; arbitration; litigation; statutory controls; copyright.

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

11.331 Estimating and Specifications

(a) Estimating

The practical methods used in the estimating of the financial cost of architectural works.

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

Measuring and methods of adjusting variation; comparison of costs for alternative methods of construction related to structural parts of buildings; preparation of preliminary estimates from sketch plans.

(b) Specifications

See 11.311 Specifications and Reports.

11.711 Quantity Surveying I

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

(a) elementary Quantity Surveying of single storey buildings involving all trades except mechanical and electrical.

(b) the correlation of plans and specifications.

(c) checking and amending plans and specifications.

(d) "taking off" of quantities from plans and specifications.

(e) correct method of recording dimensions.

(f) fundamental aspects of compiling "bill" descriptions.

11.712 Quantity Surveying II

Advanced Quantity Surveying of multi-storey construction involving all trades except mechanical and electrical; detailed study of the Australian Standard Method of Measurement and all A.S.M.M. practice notes.

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

(a) interpretation of terms.

(b) application of regulations to hydraulic services.

(c) detailed "billing" procedures for single items and complete trades.

(d) study of various types of measurement, such as London Method, Scottish Trade and Australian methods.

(e) on site measurement and correlation of measurements with contractor.
11.713 Quantity Surveying III
Detailed study of advanced aspects of Quantity Surveying including practical exercises in:
(a) Various types of Cost Control Systems and the procedures required to develop and maintain such programmes.
(b) Liaison with consultants (i.e. members of the architectural planning and construction team).

11.721 Estimating I
Methods used for estimating the cost of building work; determination of unit rates for various trades and building operations.

TEXTBOOK

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

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

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

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

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

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

TEXTBOOK

14.012 Accounting for Builders

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

TEXTBOOKS

14.051 Law for Builders I

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


TEXTBOOK

14.052 Law for Builders II


TEXTBOOKS
36.411 Town Planning

The study of factors influencing the direction of the development and use of land in the public interest.

Objectives of town and regional planning; historical background; contemporary planning techniques; New South Wales planning law and administration; elements of urban design; new towns; parks and playing fields; housing and neighbourhood planning; traffic and transport; the central area; elements of civic design; the city of the future.

TEXTBOOK

36.412 Town Planning A (Elective)

An extension of 11.411 Town Planning with opportunities for students to carry out individual investigations. The results of these investigations are presented at group seminars. Topics should normally emphasize the architectural aspects of town planning.

36.431 Town Planning Theory and Practice I

Fundamental human needs. Improving the quality of human life in urban areas. Improving the physical environment. The planning process: objects, civic survey, plan preparation and implementation. The nature and purpose of zoning. The elements of a residential neighbourhood. Studio and field exercises in civic survey, environmental studies, and the layout of residential areas.

TEXTBOOK

36.432 Town Planning Theory and Practice II

The town—its function, elements and form. Principles and practice of replanning existing towns and planning new towns. Expanded towns. The “new towns” movement in Great Britain and its international significance. New towns overseas and in Australia. Special purpose towns such as mining towns. New national capital cities. Studio exercises in town design, townscape and urban renewal.

TEXTBOOK

36.433 Town Planning Theory and Practice III


**TEXTBOOK**

36.434 Town Planning Theory and Practice IV


**TEXTBOOK**

36.435 Civic Survey Camp

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

36.436 Urban Geography


36.441 Design II for Town Planners

The lectures are those given in the subject of 11.112 Design II but the studio exercises are specially adapted for planning purposes, and to emphasize environmental design problems.

36.442 Civic and Landscape Design


36.451 History of Town Planning


TEXTBOOK

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.

36.471 Planning Law and Administration

TEXTBOOK

36.481 Land Valuation and Economics

THESES
11.171A and 11.171B Thesis (Architecture)
A specialized individual study taken under staff supervision with the object of allowing the student either to gain knowledge in some aspect of architecture which is not covered in the course or to increase his knowledge of some aspect which has been covered. As such the thesis is essentially evidence of this individual study. The study does not require original experimental research for the purpose of discovering new facts or the testing of an hypothesis. Neither is it an essay permitting the student’s unsupported opinion. The topic of the thesis is submitted by the student for the approval of the Professor of Architecture at the beginning of the fifth year and the completed thesis submitted for examination towards the end of the sixth year.

36.491 Thesis (Town Planning)
An individual study of an approved subject similar to 11.171A and 11.171B but done in one year by Town Planning students.
11.791 Building Project

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

GRADUATE SUBJECTS

1.281G Vibration and Wave Theory I

Simple oscillator, damped oscillator, ordinary differential equations, complex numbers, forced vibrations and resonance, coupled oscillators. Plane waves, interference and diffraction.

1.282G Acoustic Theory

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.

1.283G Acoustic Measuring Systems

Transducers; microphones, amplifiers, loudspeakers, filters, recorders, pickups, noise generators. Acoustic measuring instruments.

1.284G Electroacoustics

Sound reinforcement systems; ambiophony; assisted resonance. Special requirements for translation; language laboratories.

1.285G Acoustical Systems and Structures (Elective)

Vibrating systems; coupled oscillators, beams, membranes, plates, resonators, acoustic filters; analogs, analog computer simulation of vibrating systems; transfer of energy from one system to another. Reflection and transmission at walls; rigid walls, flexible walls, multiple walls, impulsive excitation. Sound absorbers; porous absorbers, perforated panel absorbers, relation of properties to basic physical characteristics; measurement procedures.

1.286G Acoustic Laboratory

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

1.287G Vibration and Wave Theory II

Fourier analysis, guided waves, electrical analogs, analysis of networks. Statistical distributions, probability, noise, correlation, sampling and digital procedures.
11.910G  History of Landscape Design

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

11.912G  Landscape Engineering

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

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

11.913G  Theory and Practice of Landscape

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

11.914G  Forestry and Horticulture

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

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

11.915G  Landscape Design

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

11.970G  Computer Techniques

Methods and application of computing; principles of statistics; digital computing; optimization; queueing theory.

11.971G  Building Contracts and Documentation


11.972G  Building Economics and Property Valuation


11.973G  Operations Planning I


11.974G  Experimental Techniques

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.

11.975G  Graduate Project

Session 2: Survey of the project area, preliminary submission containing an outline of the project.

Sessions 3 and 4: Consultations, group discussions and seminars on the project topics; preparation of a graduate project.

11.976G  Office and Personnel Management

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

11.977G  Architectural Programming

The planning and supervision of an architectural project; the building process; the compilation and dissemination of the brief; personnel potential; information collection; communications and contacts; research and feasibility studies; the economic use of resources; operations and time-tabling; budgeting; forms of documentation and documentation aids; supervision of contract letting; post-contract documents; personnel confrontations and decisions; commissioning procedures; post-completion supervision and documents; public relations.

11.978G  Estate Management


11.979G  History of Building

Development of materials, structures, building methods. The impact of social and political conditions on building. Surveys of present techniques and review of
future possibilities in development: industrialization, use of new materials, new philosophy of design.

11.980G Advanced Construction I
11.981G Advanced Construction II

Construction methods: plant, formwork, transport, assembly and erection.
Building elements: foundations, floors and walls, lift slab and flat plate; industrial buildings and frame design; prestressed concrete design and construction.
Construction problems of high-rise buildings. Slip forms, climbing forms.
Materials of construction; timber engineering; aluminium and plastics; lightweight aggregate concrete; sandwich panels.

11.982G Advanced Equipment and Services

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

11.983G Operations Planning II

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

11.984G Cost Planning and Analysis

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

11.985G Computer Applications I

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

11.986G Computer Applications II

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

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 sub-contract; 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 programmes 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.

36.920G Theory of Neighbourhood Planning
The neighbourhood concept: its historical evolution and development. The contributions of Ebenezer Howard, Unwin and Parker, Clarence Perry, Stein and Wright, Frank Lloyd Wright, Le Corbusier, Walter Burley Griffin, Frederick Gibberd, Steen Eiler Rasmussen, and others. Neighbourhood structure, elements and form. Relationship to town and metropolitan planning.

TEXTBOOK
36.921G  Practice of Neighbourhood Planning


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


TEXTBOOK

36.924G  Urban Sociology

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

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

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.