The University of New South Wales

Architecture

1989 Faculty Handbook
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Telex: AA26054
Subjects, courses and any arrangements for courses including staff allocated, as stated in the Calendar or any Handbook or any other publication, announcement or advice of the University, are an expression of intent only and are not to be taken as a firm offer or undertaking. The University reserves the right to discontinue or vary such subjects, courses, arrangements or staff allocations at any time without notice.

Information in this Handbook has been brought up to date as at 8 September 1988, but may be amended without notice by the University Council.

Contents

Calendar of Dates .................................................. 1
Staff ........................................................................ 3
Foreword ................................................................. 7
Faculty Information .................................................. 8
Some People Who Can Help You ......................... 8
Enrolment Procedures .............................................. 8
Rules for Progression ............................................... 9
Library Facilities ..................................................... 9
Faculty Laboratories ................................................ 9
Student Clubs and Societies ............................ 10

Undergraduate Study ............................................. 11
School of Architecture ............................................ 11
Architecture Degree Courses ................................ 11
Bachelor of Science (Architecture) ....................... 12
Schedule of Subjects .............................................. 13
BArch 3260 13, BSc (Arch) 3266 17
Department of Industrial Arts ............................. 18
School of Building .................................................. 18
Schedule of Subjects .............................................. 19
School of Landscape Architecture ........................ 20
Schedule of Subjects .............................................. 21
School of Town Planning ....................................... 22
Schedule of Subjects .............................................. 22

Undergraduate Study: Subject Descriptions ............ 25
Identification of Subjects by Number ..................... 26
Architecture .......................................................... 27
Architectural Design Studio 27, Architectural Communication 27,
Theory of Architecture 29, History of Architecture 30,
Architectural Construction 30, Architectural Structures 31,
Environmental Control 32, Architectural Practice 33,
Other Required Studies 34, Other Elective Studies 34
General Education Subjects 35

Industrial Design .................................................... 35
Building ................................................................. 36
Construction Stream 37, Building Science Stream 37,
Management Stream 36, Building Economics Stream 39,
Other Subjects 40

Town Planning ...................................................... 40
Core Subjects 40, Related Subjects 41,
Planning Electives 43, Subjects Offered to Other Schools 44

Landscape Architecture ........................................... 44
Landscape Electives for Students of Architecture and Related Disciplines 46,
Subject Offered to Other Schools 47

Botany ................................................................. 47
Mines ................................................................. 47
Graduate Study
Graduate Enrolment Procedures
Higher Degrees - Research
Summary of Conditions for the Award of a Masters Degree
Graduate Courses
Graduate School of the Built Environment
1120 Doctor of Philosophy (PhD) 50
2201 Master of Architecture (MArch) 51
2240 Master of the Built Environment (MBEnv) 51
8100 Master of Science (Acoustics) (MSc(Acoustics)) 51
8130 Master of the Built Environment (Building Conservation) (MBEnv) 52
8145 Master of Industrial Design (MID) 53
8146 Master of Science (Industrial Design) (MSc(IndDes)) 53

School of Architecture
1130 Doctor of Philosophy (PhD) 55
2200 Master of Architecture (MArch) 55
6140 Master of Architectural Design (MArchDes) 55
2206 Master of Science (by Research) 56

School of Building
1140 Doctor of Philosophy (PhD) 56
2210 Master of Building (MBuild) 56
8116 Master of Project Management 56
8155 Master of Construction Management (MConstrMgt) 57

School of Landscape Architecture
1180 Doctor of Philosophy (PhD) 59
2220 Master of Landscape Architecture (MLArch) 58
8135 Master of Landscape Planning (MLP) 58
5215 Graduate Diploma in Landscape Planning (GradDiplLP) 58

School of Town Planning
1150 Doctor of Philosophy (PhD) 59
2230 Master of Town Planning (by Research) (MTP) 59

Graduate Study: Subject Descriptions
Identification of Subjects by Number
Architecture 63
Building 63
Town Planning 65
Landscape Architecture 66
Graduate School of the Built Environment 66

Graduate Study: Conditions for the Award of Higher Degrees
Doctor of Philosophy 73
Master of Architectural Design 75
Master of Architecture, Master of Building, Master of the Built Environment, Master of Landscape Architecture and Master of Town Planning 75
Master of Project Management 77
Master of the Built Environment (Building Conservation), Master of Industrial Design, Master of Science (Acoustics), and Master of Science (Industrial Design) 78
Master of Engineering and Master of Science 79
Master of Engineering, Master of Science and Master of Surveying without supervision 80
Master of Landscape Planning 81
Graduate Diploma 82

Scholarships and Prizes
Scholarships
Undergraduate 85
Graduate 86
Prizes
Undergraduate 89
Graduate 90
### Calendar of Dates

**Session 1 (67 teaching days)**

<table>
<thead>
<tr>
<th>Date Range</th>
<th>1989</th>
<th>1990</th>
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<tbody>
<tr>
<td>27 February to 23 March</td>
<td>26 February to 12 April</td>
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<tr>
<td>Recess</td>
<td>24 March to 2 April</td>
<td>13 April to 22 April</td>
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<td></td>
<td>3 April to 8 June</td>
<td>23 April to 7 June</td>
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<tr>
<td>Study Recess</td>
<td>9 June to 14 June</td>
<td>8 June to 13 June</td>
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<tr>
<td>Midyear Recess</td>
<td>1 July to 23 July</td>
<td>30 June to 22 July</td>
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<tr>
<td>Examinations</td>
<td>15 June to 30 June</td>
<td>14 June to 29 June</td>
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</tbody>
</table>

**Session 2 (67 teaching days)**

<table>
<thead>
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<tr>
<td>24 July to 22 September</td>
<td>23 July to 21 September</td>
<td></td>
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<tr>
<td>Recess</td>
<td>23 September to 2 October</td>
<td>22 September to 1 October</td>
</tr>
<tr>
<td></td>
<td>3 October to 1 November</td>
<td>2 October to 31 October</td>
</tr>
<tr>
<td>Study Recess</td>
<td>2 November to 7 November</td>
<td>1 November to 6 November</td>
</tr>
<tr>
<td>Examinations</td>
<td>8 November to 24 November</td>
<td>7 November to 23 November</td>
</tr>
<tr>
<td>Vacation Weeks</td>
<td>27 March to 2 April</td>
<td>16 April to 22 April</td>
</tr>
<tr>
<td>Common to Australian</td>
<td>3 July to 9 July</td>
<td>2 July to 8 July</td>
</tr>
<tr>
<td>Universities</td>
<td>25 September to 1 October</td>
<td>24 September to 30 September</td>
</tr>
</tbody>
</table>

### Important Dates for 1989

**January**

- **M 2** New Year's Day - Public Holiday
- **F 6** Last day for acceptance of applications by the Admissions Section for transfer to another undergraduate course within the University.
- **W 18** Last day for applications for review of results of assessment.
- **Th 26** Australia Day - Public Holiday
- **T 31** Enrolment period begins for new undergraduate students and undergraduate students repeating first year.

**February**

- **M 6** Re-enrolment period begins for second and later year undergraduate and graduate students enrolled in formal courses. Students should consult the 1989 Re-enrolment Procedures booklet for details.
- **F 24** Last day for students to discontinue 1989 enrolment.
- **M 27** Session 1 begins - all courses except Medicine III, IV and V.

**March**

- **F 10** Last day applications are accepted from students who enrol in additional Session 1 or whole year subjects.
- **F 24** Good Friday - Public Holiday
- **M 27** Easter Monday - Public Holiday
April
Su  2  Mid-Session Recess ends
F  21  Last day for students to discontinue without failure subjects which extend over Session 1 only
T  25  Anzac Day - Public Holiday
May
T  2  Confirmation of Enrolment forms despatched to all students
T  9  Publication of Provisional Timetable for June examinations
Th 11  Last day for acceptance of corrected Confirmation of Enrolment forms
W  17  Last day for students to advise of examination clashes
T  30  Publication of timetable for June examinations
June
Th  8  Session 1 ends
F  9-14  Study Recess
M  12  Queen’s Birthday - Public Holiday
Th 15  Examinations begin
F  30  Examinations end
July
M 10  Assessment results mailed to students
T 11  Assessment results displayed on University noticeboards
Su 23  Midyear Recess ends
M 24  Session 2 begins
M 31  Last day for applications for review of July assessment results
August
F  4  Last day applications are accepted from students to enrol in additional Session 2 subjects
         Last day for students to discontinue without failure subjects which extend over the whole academic year
September
F  8  Last day for students to discontinue without failure subjects which extend over Session 2 only
T 19  Confirmation of Enrolment forms sent to all students
S 23  Mid-Session Recess begins
Th 28  Last day for acceptance of corrected Confirmation of Enrolment forms
F 29  Closing date for applications to the Universities and Colleges Admission Centre
October
M  2  Mid-Session Recess ends
         Eight Hour Day - Public Holiday
T  3  Publication of provisional examination timetable for November examinations
W 11  Last day for students to advise of examination timetable clashes
T 24  Publication of timetable for November examinations
November
W  1  Session 2 ends
Th 2-7  Study Recess
W  8  Examinations begin
F  24  Examinations end
December
F  8  Assessment results mailed to students
M 11  Assessment results displayed on University noticeboards
Staff

Comprises School of Architecture, including Department of Industrial Arts; Schools of Building, Landscape Architecture, Town Planning; and Graduate School of the Built Environment.

Dean
Professor A.R. Toakley

Chairman
Associate Professor R.E. Apperty

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

Professional Officers
Roderick Craig McGregor, BSc N.S.W.
Richard Rosenberger, BE Timisoara, MIEAust

School of Architecture

Professor of Architecture and Head of School
Paul Stanhope Reid, BArch Auck., MArch Mich., ARAIA

Professor of Architecture
Vacant

Professor of Architecture
Vacant

Visiting Professor
Laszlo Peter Kollar, MArch PhD N.S.W., ASTIC

Associate Professors
Richard Eric Apperty, BArch Syd., MArch N.S.W., ARAIA

John Albyn Bellinger, BArch Adel., FRAIA
Russell Callam Jack, MArch N.S.W., ASTIC, FRAIA
Peter Thomas Oppenheim, BArch Cape T., MArch PhD N.S.W.
Nancy Claire Ruck, BArch N.Z., MBdgSc Syd., PhD N.S.W., FIES, FRAIA, ANZIA
Kenneth James Wyatt, BE Qld., MBdgSc Syd., MIEAust

Senior Lecturers
Victor Martin Berk, BArch Dipedmin N.S.W.
John Richard Cooke, BArch Syd., LLB MSc(Building)
N.S.W., FRAIA
Paul Alan Johnson, BArch Syd., DipCD PhD N.S.W., FRAIA
Bruce Herbert Judd, BArch PhD Syd., ARAIA
Geoffrey Kenneth La Sueur, BArch GradDipl N.S.W., ARAIA
Nicholas Marinov, DipArch Prague, MArch N.S.W.
Alan Ogg, BE N.S.W., MArch Penn
Richard Patrick Parfur, BSc Lond., PhD N.S.W., DipEng
Lough.
Peter Reginald Proudfoot, BArch Syd., MArch Penn, PhD
N.S.W., Rome Scholar, ARAIA
Vinzenz Franz-Josef Sedlak, DiplingArch T.U. Graz, MPhil Sur.
Barry Vivian Wollaston, BArch Syd., MArch N.S.W., FRAIA

Lecturers
Chris LeRoy Bell, BA(Arch) Calif.
Robert John Bryant, BArch N.S.W., MTCP Syd., ASTIC,
DipEnvStud Mecq., MRAPI, ARAIA
Geoffrey Lindsay Dwyer, FRAIA
Richard Grantley Fitzhardinge, DipArch Kingston on Thames Poly., MArch Calif., ARIBA, ARAIA
Stanislaus Fung BSc(Arch) N.S.W.
Elizabeth Ann Howard, BArch Syd., BA Mecq.
Delsey Olwyn Luscombe, BSc(Arch) BArch N.S.W.
Susan Helen McLain BSc(Arch) BArch N.S.W.
Peter Murray, BArch N.S.W., MTCP Syd., DipEnvStud
Mecq., ARAIA
James David Plume, MArch Syd.
Harry Anthony Stephens, BArch DipLD N.S.W., FRAIA
Kwong Hon Tang, BArch H.K., MArch Melb.
Phillip Manning Taylor BArch N.S.W., FRAIA

Tutor
Stephen Peter, BArch DipArchComp Syd.

Administrative Assistant
Harold Percy Chambers, BA S.Pac.

Department of Industrial Arts
Senior Lecturer and Acting Head of Department
William Richard Lawson, BSc PhD N.S.W., MAP&S, MAIHR

Senior Lecturer
Donald McArthur Godden, MSc N.S.W.

School of Building

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

Professor of Building
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Manc., CEng, FIEAust, FAIB

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MIEAust, MAIB
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Lecturers
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Clyde Donald Smythe, MBBuild N.S.W., ASTC, MAIB
Robert Vaughan Zikmann, BSc(Build) Pret., MDP
(Build.Proj.Mngt) S.A., MISABSP

Visiting Fellow
John Malcolm Hutcheson, MC, BE Syd., BCom Qld., MBA
PHD N.S.W., FCIS, FIEAust, AAPI, FID, FIArbA, AAIQ, LGE,
FAIB, FAIM, FSLE, FCDA, FASA, CPA

School of Landscape Architecture

Professor of Landscape Architecture and Head of School
William Hendrix; PhD MLA Mass., BLA Ohio State, APA

Associate Professor
Finn Christopher Thorvaldson, BArch N.S.W., MLA Mich.,
ARAIA, AAILA

Senior Lecturer
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N.S.W., AAILA

Lecturers
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DipEnvStud Macq., ARAIA, AAILA
Douglas Crawford, BArch Melb., GradDip MSc N.S.W.,
MAIHR
Ingrid Raine Mather, BLArch N.S.W., AAILA
Donald Guy Sigsby, MLA Mich., AAILA

School of Town Planning

Professor of Town Planning and Head of School
Hans Leo Westerman, ME Delft., FRAPI, MIEAust

Associate Professor
Elias David Duk-Cohen, BArch Liv., MA Oxf., DipTP Lond.,
FRAPI, MRTPI, ARIBA

Senior Lecturers
Stephen Harris, BTP N.S.W., FRAPI
Peter Ashton Murphy, BA Syd., PhD Macq.
Robert Bolles Zehner, BA Amh., MA PhD Mich., MASA

Lecturers
Richard Earl Lloyd, BSc Calif.Poly.State, PhD Calif.
Danny Barry Wiggins, BTP PhD N.S.W., MRAPI

Graduate School of the Built Environment

Professor of Architecture and Head of School
John Christopher Haskell, DipTP Land., MArch Natl, Rome
Scholar FRSA

Associate Professor
Anita Barbara Lawrence, MArch N.S.W., FRAIA, MAAS

Senior Lecturers
John Kyle Redmond, BA DipLD(Eng) C.S.A.D., MA R.C.A.,
FRSA, FDI A
Peter Leggett Reynolds, BArch PhD N.S.W.

Lecturer
Catherine Mary De Lorenzo, BA DipEd Syd.

Honorary Visiting Fellows
Sydney Allison Baggs, MArch DipLD PhD N.S.W., ASTC,
FRAIA, AAILA, ARIBA
Robert Charles Lewis Irving, MArch N.S.W., ARMTC, FRAIA
Building Research Centre

Director
Marton Marosszekey

Deputy Director
Graham Edward Levido

Senior Research Assistant
Deo Prasad, BArch Auck., MArch N.S.W., ARAIA

Postgraduate Scholars
Michael Chew, BBuild N.S.W.
Chung Min Ng, BE Monash
David Wang, BSc(Build.Const) Shanghai

Consultant
Perry Forsythe
Foreword

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

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

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

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

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

Some People Who Can Help You

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

Mr Brian Newell, Senior Administrative Officer, Faculty of Architecture
Room 510, Architecture Building, Extension 4794.

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

Professor Paul Reid, School of Architecture
Room 100, Architecture Building, Extension 4780.

Professor William Hendrix, School of Landscape Architecture
Room 208, Old Main Building, Extension 4844.

Mr Clyde Smythe, School of Building
Room 409, Architecture Building, Extension 4821.

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

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

Faculty of Architecture Enrolment Procedures

Architecture Degree Course

All students re-enrolling in Architecture courses in 1989 should obtain a copy of the free booklet Architecture Enrolment Procedures 1989 available from the School Office. This booklet provides detailed information on enrolment procedures and enrolment timetable.

Town Planning Degree Course

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

Bachelor of Building Degree Course

The Building course is offered on a credit point semester system basis and students are required to enrol for the full year (two semesters) on the dates and at the times shown in the booklet Building Enrolment Procedures 1989.

Students are required to complete 70 days of practical experience as part of their course. They may elect to fulfill this requirement by working during vacation periods or to work full time in industry for one semester. Building students who elect to take their industrial program in Session 1 in any year are required to enrol at the beginning of that year.
Enrolment for Session 2 subjects is a preliminary enrolment and accepted subject to the student having obtained the appropriate prerequisites before commencement of that session.

Rules for Progression

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

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

Library Facilities

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

The Physical Sciences Library

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

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

The Studio Collection contains a small collection of reference, course-related and general interest material. This material is not for loan but in the majority of cases loan copies are held in the Physical Sciences Library or in the undergraduate collection. The Studio Collection is open from 8:30am to 6:00pm during session and from 9:00am to 5:00pm during vacation, and a librarian is available to provide reference services and assist with readers' enquiries for several hours each day.

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

Physical Sciences Librarian

Undergraduate Services

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

Facility Laboratories

Research Laboratories

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

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

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

Computing Facilities Laboratory

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

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

Active research is under way in the following areas:

The use of computing techniques and graphics in architectural design.

Rational computer-based documentation methods in building.

The development of management information systems for building organizations.

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

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

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Student Clubs and Societies

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

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

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

School of Architecture

Head of School
Professor Paul Reid

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

Architecture Degree Courses

3260
Bachelor of Architecture Course

Bachelor of Architecture
BArch

This course provides the academic education and practical experience leading to professional qualifications in architecture. It aims to equip students with the theoretical and practical knowledge, skills and techniques needed in the design and construction of buildings.

General Description of the Course

The course requires full-time attendance for five years with an additional six months practical experience taken after the end of third year. Theoretical knowledge is covered by lectures in the following seven areas:

1. Architectural Communication.
7. Architectural Practice.

Progression through the course is by Design Stages comprising Studio and Seminar components. The first three
Design Stages are of one year duration and the final four Design Stages are of one semester, or half-year duration. Admission to each Design Stage is subject to completion of a majority of the components of the preceding Design Stage and certain prerequisite Theory subjects.

In the Studios a graded sequence of exercises in the form of projects provides experience in architectural design. Each Studio is accompanied by Seminars which draw on the theoretical material and demonstrate its practical application. The architectural projects designed in the Studios thus provide the means for integrating all aspects of architecture.

In the final three sessions of the course the selection of an elective package gives students the opportunity to concentrate their study on particular aspects of architecture. Elective subjects are offered according to demand and the availability of staff and resources.

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

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

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

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

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

Students enrolled in the BSc(Arch) program (Course 3265) or the BArch program (Course 3260) are eligible to become student members of the Royal Australian Institute of Architects.

The foregoing is a general statement and students are strongly advised to obtain further particulars from the RAIA and the Board of Architects of New South Wales.
## B Arch Course 3260: Schedule of Subjects

Students must pass the Design Stages, comprising Studio and Seminars in the sequence as set out below. Theory subjects must be taken in sequence within their own areas but are only tied to Design Stages by the pattern of prerequisites indicated. One seminar subject may be carried into the following Design Stage. No more than 8 elective credit points may be taken in any one Session. Electives are normally taken in packages as indicated, but students may submit their own special programme of elective study to the Head of School for approval. General Education electives totalling 12 credit points must be taken during the course. Practical experience may be taken either between Design Stages 3 and 4 or between Design Stages 4 and 5.

Credit points generally indicate: (I) for one semester subjects, the number of staff/student contact hours per week, or (II) for whole year subjects, twice the number of staff/student contact hours per week.

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<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
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<tbody>
<tr>
<td></td>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.5201</td>
<td>Architectural Communication I</td>
<td>3</td>
<td>Nil</td>
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<tr>
<td>11.5301</td>
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|     | **Design Stage I**                |               |                        |
| 11.5101 | Studio I                          | 9             | Nil                    |
| 11.5203 | Communication Seminar I           | 6             | 11.5201                |
| 11.5304 | Theory Seminar I                  | 6             | 11.5301                |
| 11.5504 | Construction Seminar I            | 4             | 11.5501                |
| 11.5604 | Structures Seminar I              | 2             | Nil                    |

|     | **Year 2**                        |               |                        |
| 11.5202 | Architectural Communication II    | 2             | 11.5201                |
| 11.5302 | Theory of Architecture II         | 2             | 11.5301                |
| 11.5403 | History of Architecture II        | 2             | 11.5402                |
| 11.5502 | Architectural Construction II     | 4             | 11.5501                |
| 11.5602 | Architectural Studies II          | 2             | 11.5601                |
| 11.5702 | Environmental Control II          | 4             | 11.5701                |

|     | **Design Stage II**               |               |                        |
| 11.5102 | Studio II                         | 10            | 11.5101, 11.5501,      |
| 11.5204 | Communication Seminar II          | 4             | 11.5201, 11.5301,      |
| 11.5305 | Theory Seminar II                 | 4             | 11.5601, 11.5701,      |
| 11.5505 | Construction Seminar II           | 3             | three from             |
| 11.5605 | Structures Seminar II             | 2             | 11.5203, 115304        |
| 11.5704 | Environmental Control Seminar I   | 1             | 11.5504, 11.5604        |
|         | General Studies Electives         | 4             | Nil                    |
# B Arch Course 3260: Schedule of Subjects

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## B Arch Course 3260: Schedule of Subjects

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B Arch Course 3260: Schedule of Subjects

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**Design Elective Package II**

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**Year 6 - Session 1**

**Design Stage VII**

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**Design Elective Package III**

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Note: Other denotes one subject from the alternate package.
# BSc (Arch) Course 3265: Schedule of Subjects

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<td>Choice of B.Arch. subjects</td>
<td>15</td>
<td>Head of School’s approval</td>
</tr>
<tr>
<td></td>
<td>General Education Elective</td>
<td>2</td>
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</tr>
<tr>
<td><strong>Year 3 - Session 1</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>11.5916</td>
<td>Special Research Programme III</td>
<td>5</td>
<td>11.5915, Head of School’s approval</td>
</tr>
<tr>
<td>11.5912</td>
<td>Research Methods</td>
<td>2</td>
<td>11.5915</td>
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<td>13</td>
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<tr>
<td><strong>Year 3 - Session 2</strong></td>
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<td></td>
</tr>
<tr>
<td>11.5917</td>
<td>Research Project</td>
<td>8</td>
<td>11.5916, 11.5912</td>
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<tr>
<td></td>
<td>Choice of B.Arch. subjects</td>
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<td>General Education Elective</td>
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</tr>
<tr>
<td><strong>Year 4 (Optional Honours year) - Session 1</strong></td>
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<td></td>
</tr>
<tr>
<td>11.5918</td>
<td>Honours Project I</td>
<td>22</td>
<td>131 credit points</td>
</tr>
<tr>
<td><strong>Year 4 - Session 2</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>11.5919</td>
<td>Honours Project II</td>
<td>22</td>
<td>11.5918</td>
</tr>
</tbody>
</table>

The Special Research Programmes and Research Project may only be credited to the BSc(Arch) degree programme. The Honours Projects may only be credited to the BSc(Arch) degree programme at Honours level.
Department of Industrial Arts

Acting Head of Department
Dr W. R. Lawson

The Department of Industrial Arts offered a BSc(IndArts) DipEd course (3320) which was available through full-time study in the general field of Industrial Arts. This course was discontinued from 1982 and no new students may be enrolled. Students already enrolled may continue with their studies until completion of the degree.

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

3320
Industrial Arts Course - Full-time

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

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

School of Building

Head of School
Associate Professor R. M. A. Miller

Undergraduate Course Co-ordinator
Mr. Clyde Smythe

Building Degree Course

Bachelor of Building
BBuild

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

General Description of the Course

The course is offered on a semester basis. Students are required to complete a minimum of eight semesters (sessions). The course leads to the award of the degree of Bachelor of Building (BBuild).

The eight semesters of the course are structured as follows:

- semester 1 to 6 consist of a fixed program of compulsory subjects,
- semesters 7 and 8 consist of electives and a compulsory Thesis.

In a normal semester program, this usually results in six subjects requiring 18 class hours plus a General Education subject.

Credit points are allocated to all subjects. Usually a subject having one hour of classes per week for one session is rated at one credit point.

To qualify for a Bachelor of Building degree a student must have completed all compulsory subjects (comprising 129 credit points) and a minimum of 20 credit points from the elective subjects. In addition, all students are required to satisfy the General Education requirement by taking two full General Education subjects (refer to the General Education Handbook for details).

Progress through the Course

Progression through the course is by subject, provided that:

- the necessary subject prerequisites are completed;
- failed subjects are repeated the next time they are offered.

In the event of failure in one or more subjects, the student may carry the failed subject(s) provided that:

- prerequisite subjects have been completed to the satisfaction of the Head of School;
- the total number of subjects taken at any time does not exceed 7 including General Education; and
- the total contact hours do not exceed 20 per week.

Practical Experience

Prior to graduation, students are required to have gained a minimum of 70 days of practical experience by appropriate employment in the building industry. This can be in the form of a semester working full-time in industry. Alternatively, the requirement can also be satisfied by vacation employment at any time during the course prior to graduation, provided that the experience is not too fragmented and that employment is with no more than three employers. Students are encouraged to seek vacation employment in industry from early in the course.

The proposal for employment must be submitted to the Head of the School of Building for approval and students will be required to produce documented evidence of their work experience. In order to formally complete the industry experience requirement, students must enrol in 35.410 Industry Program in semester 7 or 8 of the course.

Award of the Degree at Honours Level

The award of honours is based on performance throughout the whole course, without requiring an additional honours
program. Honours are determined on the basis of a score which is calculated by weighting more heavily the subjects taken in the later years of the course.

**Professional Recognition**

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

1. The Australian Institute of Building
2. The Australian Institute of Quantity Surveyors, subject to completion of the following electives:
   - 35.303 Quantity Surveying 3
   - 35.313 Building Economics 3
   - 35.005 Construction 5
   - 35.008 Construction 6

3. The Institution of Surveyors Malaysia, subject to completion of the following:
   - 35.301 Quantity Surveying 1
   - 35.302 Quantity Surveying 2
   - 35.303 Quantity Surveying 3

4. The Society of Land Economists as a partially qualifying degree for corporate membership.

The course is also recognised as an educational qualification for licensing by the Building Services Corporation.

---

**Schedule of Subjects**

**Year 1 (All subjects compulsory)**

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Credit points</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.001 Construction 1 (Domestic Buildings)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>35.010 Communications and Resource Usage</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>35.091 Built Environment 1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>35.111 Building Science 1 (Materials)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>35.170 Mathematics for Builders</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>35.261 Management 1 (Management Principles)</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Semester 2**

| 1.931 Physics for Builders | 4 | |
| 29.411 Surveying for Architects and Builders | 2 | |
| 35.002 Construction 2 (Low Rise Domestic) | 4 | 35.001 |
| 35.051 Structures 1 | 3 | |
| 35.151 Building Services 1 (Hydraulics) | 2 | |

**Year 2 (All subjects compulsory)**

<table>
<thead>
<tr>
<th>Semester 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.003 Construction 3 (Framed Buildings)</td>
</tr>
<tr>
<td>35.052 Structures 2</td>
</tr>
<tr>
<td>35.262 Management 2 (Planning)</td>
</tr>
<tr>
<td>35.271 Law for Builders 1</td>
</tr>
<tr>
<td>35.281 Introduction to Computing</td>
</tr>
<tr>
<td>35.311 Building Economics 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.001 Introduction to Accounting A</td>
</tr>
<tr>
<td>35.112 Building Science 2 (Concrete and Metals)</td>
</tr>
<tr>
<td>35.152 Building Services 2 (Mechanical)</td>
</tr>
<tr>
<td>35.263 Management 3 (Contracts)</td>
</tr>
<tr>
<td>35.301 Quantity Surveying 1</td>
</tr>
<tr>
<td>35.321 Estimating 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 (All subjects compulsory)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 5</td>
</tr>
<tr>
<td>14.002 Introduction to Accounting B</td>
</tr>
<tr>
<td>35.004 Construction 4 (High Rise Buildings)</td>
</tr>
<tr>
<td>35.264 Management 4 (Personnel Management)</td>
</tr>
<tr>
<td>35.282 Computer Applications in Building</td>
</tr>
<tr>
<td>35.302 Quantity Surveying 2 General Education Elective</td>
</tr>
</tbody>
</table>

(See General Education Handbook)

<table>
<thead>
<tr>
<th>Year 4 (Thesis preparation and Thesis are compulsory. Students must take a total of 20 elective credit points.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 7</td>
</tr>
<tr>
<td>Compulsory Subject</td>
</tr>
<tr>
<td>35.401 Thesis preparation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Elective Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>35.006 Construction 6 (Industrialization and Technological Change)</td>
</tr>
<tr>
<td>35.703</td>
</tr>
</tbody>
</table>
Landscape Architecture Degree Course

BLArch

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

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

The course is designed to introduce students to landscape architecture through an understanding of the components and processes at work in primitive environments, and of the philosophies and techniques which have been developed by people in continuous efforts to improve this environment. In the later years of the course emphasis is given to creative design work of a kind appropriate to Australian conditions. Programs are related to the subject matter of concurrent lectures, and culminate in an examination of landscape problems of regional and national significance.

General Description of the Course

The course requires full-time attendance of approximately 20 hours per week over at least four years.

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

Practical Experience

Students of the undergraduate course must obtain a total of four months' practical experience prior to graduation, of which a minimum of two months must be in a design office and a minimum of two months must be in landscape industry work. This normally takes the form of employment during long vacations under a landscape architect, landscape contractor or nurseryman. Each student entering upon practical experience must obtain prior approval of the Professor of Landscape Architecture or his nominee. Each student must obtain from the employer a statement of experience gained, maintain an accurate record in logbook form and submit a written report describing the work undertaken during the various practical experience components. This practical experience must be obtained prior to enrolling in 37.5808 Landscape Design 6.

Honours

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

Professional Recognition

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

Bachelor of Landscape Architecture
BLArch

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

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

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

Schedule of Subjects

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Hours Per Week</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Session 1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25.5222</td>
<td>Geology for Landscape Architecture</td>
<td>1</td>
<td>nil</td>
</tr>
<tr>
<td>27.818</td>
<td>Australian Environment and Human Response</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>37.0001</td>
<td>Introduction to Landscape Architecture</td>
<td>1</td>
<td>nil</td>
</tr>
<tr>
<td>37.3101</td>
<td>Landscape Graphics 1</td>
<td>4</td>
<td>nil</td>
</tr>
<tr>
<td>37.5101</td>
<td>Design 1</td>
<td>3</td>
<td>nil</td>
</tr>
<tr>
<td>37.7203</td>
<td>Landscape Materials and Construction</td>
<td>3</td>
<td>nil</td>
</tr>
<tr>
<td>43.202</td>
<td>Botany for Landscape Architects</td>
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</tr>
<tr>
<td></td>
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<td>2</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>23</td>
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</tr>
<tr>
<td><strong>Session 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37.1102</td>
<td>Horticulture for Landscape Architects</td>
<td>2</td>
<td>43.202</td>
</tr>
<tr>
<td>37.1302</td>
<td>Landscape Analysis*</td>
<td>6</td>
<td>27.818, 43.202</td>
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<tr>
<td>37.3203</td>
<td>Landscape Graphics 2</td>
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<td>37.3101</td>
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<td>37.5202</td>
<td>Design 2</td>
<td>3</td>
<td>37.5101</td>
</tr>
<tr>
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<td>General Education Elective</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>* These subjects include a number of lectures and field trips for the purpose of practical observation. Students are expected to make their own transport arrangements for these trips.</td>
<td></td>
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</tbody>
</table>

| **Year 2** | | | |
| **Session 1** | | | |
| 37.1413 | History of Landscape Architecture | 2 | nil |
| 37.1513 | Environmental Sociology for Landscape Architects | 2 | | |
| 37.5313 | Landscape Design 1 | 10 | 37.5202 |
| 37.7204 | Landscape Technology A | 3 | 37.7203 |
| | General Education Elective | 2 | | |
| | | 19 | | |
| **Session 2** | | | |
| 37.0014 | Introduction to Computer Applications | 2 | nil |
| 37.5004 | Planting Design | 2 | 37.1102 |
| 37.5014 | Landscape Design 2 | 12 | 37.5313 |
| 37.7205 | Landscape Technology B | 3 | 37.7204 |
| | General Education Elective | 2 | | |
| | | 21 | | |
| **Year 3** | | | |
| **Session 1** | | | |
| 36.411 | Town Planning | 2 | nil |
| 37.3005 | Research Methods | 1 | nil |
| 37.5505 | Landscape Design 3 | 8 | 37.5014, 37.7205 |
| 37.7113 | Professional Practice A | 2 | 37.5014, 37.7205 |
| 37.7515 | Landscape Engineering A | 3 | 37.7205 |
| 37.9105 | Landscape Planning 1 | 3 | 37.1513 |
| | General Education Elective | 2 | | |
| | | 21 | | |
| **Session 2** | | | |
| 37.1616 | Land Systems and Management | 2 | 37.5505 |
| 37.5606 | Landscape Design 4 | 8 | 37.5505 |
| 37.7114 | Professional Practice B | 2 | 37.7113 |
| 37.7616 | Landscape Engineering B | 3 | 37.7515 |
| 37.9206 | Landscape Planning 2 | 3 | 37.9105 |
| | General Education Elective | 2 | | |
| | | 20 | | |
| **Year 4** | | | |
| **Session 1** | | | |
| 37.3007 | Landscape Thesis | 10 | 37.3005, 37.5606 |
| 37.502 | Landscape Design 5 | 3 | 37.5606 |
| 37.501 | Urban Landscape Design | 6 | 37.5606 |
| | General Education Elective | 2 | | |
| | | 19 | | |
| **Session 2** | | | |
| 37.3007 | Landscape Thesis | 4 | See Session 1 |
| 37.5806 | Landscape Design 6 | 12 | 37.5707 four months practical experience |
| | | 16 | |
School of Town Planning

Head of School
Professor H. L. Westerman

Town Planning Degree Course
BTP

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

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

General Description of the Course

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

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

Practical Experience

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

Honours

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

For the purpose of calculating Honours at graduation, the Honours value of each subject is indicated by the credit points associated with that subject. Credit points generally reflect the workload required of students in subjects in which grades are awarded.
Year 3

Session 1
36.215 Planning Law and Administration 1 12 14
36.230 Politics, Power and Policy 3 4
36.235 Urban Society and Sociology 3 4
37.224 Landscape Architecture 2 3
  20 25

Session 1
36.503 Practical Experience 3 -

Year 4

Session 1
36.503 Practical Experience 3 -

Session 2
36.214 Local Planning 2 6 9
36.228 Transportation Planning 3 4
36.216 Planning Law and Administration 2 3 4
36.421 Integrated Planning Project 1 8 8
  20 25

Year 5

Session 1
36.219 Regional Planning 2 6 9
36.223 Computer Applications in Planning 1 2 3
36.491 Thesis 1 -
36.422 Integrated Planning Project 2 12 12
  21 24

Session 2
36.491 Thesis 15 20
36.210 Professional Practice 1 2
36.8300 Planning Elective 4 4
  20 26

* The following planning electives are offered subject to demand and availability.
36.8301 Residential Planning 4 4
36.8303 Regional Planning 3 4 4
36.8304 Rural Planning 4 4
36.8305 Urban Conservation 4 4
36.8306 Planning Law and Administration 3 4 4
36.8307 Urban Studies 4 4
36.8308 Social Planning 4 4
36.8309 Environmental Psychology 4 4
36.8312 Transport and Environmental Management 4 4
36.8313 Urban Design 2 4 4
36.8314 Computer Applications in Planning 2 4 4

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

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

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

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

1. The authority offering the subject, normally a School of the University, is indicated by the number before the decimal point.
2. Each subject number is unique and is not used for more than one subject title.
3. Subject numbers may not be re-used with a new subject title within ten years of the prior use.
4. Graduate subjects are indicated by a suffix 'G' to a number with three digits after the decimal point. In other subjects three or four digits are used after the decimal point.

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

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

Servicing Subjects are those taught by a school or department outside its own faculty. Their subject descriptions are published in the handbook of the faculty which originates the subject and are also published in the handbook of the Faculty in which the subject is taught.
<table>
<thead>
<tr>
<th>School, Department etc</th>
<th>Faculty</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>School of Physics</td>
<td>Science</td>
<td></td>
</tr>
<tr>
<td>School of Chemistry</td>
<td>Science</td>
<td></td>
</tr>
<tr>
<td>School of Chemical</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>School of Metals</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>School of Mechanical and Industrial Engineering</td>
<td>Engineering</td>
<td></td>
</tr>
<tr>
<td>School of Electrical Engineering</td>
<td></td>
<td></td>
</tr>
<tr>
<td>School of Mines (Mineral Processing and Extractive Metallurgy and Mining Engineering)</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>School of Mathematics</td>
<td>Science</td>
<td></td>
</tr>
<tr>
<td>School of Architecture</td>
<td>Architecture</td>
<td>27</td>
</tr>
<tr>
<td>School of Psychology</td>
<td>Biological and Behavioural Sciences</td>
<td></td>
</tr>
<tr>
<td>School of Fibre Science and Technology (Textile Technology)</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>School of Accounting</td>
<td>Commerce &amp; Economics</td>
<td></td>
</tr>
<tr>
<td>School of Economics</td>
<td>Commerce &amp; Economics</td>
<td></td>
</tr>
<tr>
<td>School of Health</td>
<td>Professional Studies</td>
<td></td>
</tr>
<tr>
<td>School of Information Systems</td>
<td>Commerce &amp; Economics</td>
<td></td>
</tr>
<tr>
<td>Department of Industrial Arts</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>School of Mines (Applied Geology)</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>School of Liberal and General Studies</td>
<td>Liberal and General Studies</td>
<td></td>
</tr>
<tr>
<td>School of Geography</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>School of Marketing</td>
<td>Commerce &amp; Economics</td>
<td></td>
</tr>
<tr>
<td>School of Surveying</td>
<td>Commerce &amp; Economics</td>
<td></td>
</tr>
<tr>
<td>School of Industrial Relations and Organizational Behaviour</td>
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</tr>
<tr>
<td>School of Optometry</td>
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<tr>
<td>Centre for Biomedical Engineering</td>
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</tr>
<tr>
<td>Faculty of Arts</td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td>School of Building</td>
<td>Architecture</td>
<td>36</td>
</tr>
<tr>
<td>School of Town Planning</td>
<td>Architecture</td>
<td>40</td>
</tr>
<tr>
<td>School of Landscape Architecture</td>
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Architecture

Architectural Design Studio

From the beginning architectural synthesis will be the central function of the design studio, the locus of the application of knowledge gained in the lectures and seminars. Projects and exercises of increasing depth and complexity covering a wide range of building types will be the vehicles for studies in masonry, spatial manipulation, functional planning and constructional engineering. The studios will progressively consider social and aesthetic factors affecting architecture which will advance design beyond utilitarian concerns demonstrating architecture as an art form. Great places and buildings exercise a pervasive influence on the fabric of society and condense sentiments and meanings within their structures and spaces which symbolise and enshrine human needs and aspirations. They have not only a physical existence but are also capable of having an important spiritual and cultural existence.

The studios in advanced architectural design will, therefore, focus with intensity on the constituent factors and continuities arising from the history of our culture which deeply influence architecture seeking an integration of these with material and technological rationality.

Thus, they will seek to make clear connections between underlying principles, historical explanation and analysis, order, unity, reason, location, place and the dimension of human experience.

1.5101 Studio I  
Prerequisites: Nil

Analysis of the built environment to develop an awareness of man's need for shelter and an understanding of his functions, activities and aspirations and of the architects' essentially creative and conceptual role. Introductory studio focusing on the application of design theory/methodology through simple three dimension design and communication exercises exploring a variety of media and materials culminating in the design of simple, small-scale buildings.

1.5102 Studio II  

The design of simple residential and non-residential buildings with few spaces, relatively simple functional relationships for clearly defined and familiar user groups on straightforward but interesting sites requiring some contextual understanding. Integration of basic structural, constructional, servicing and environmental control concepts.

1.5103 Studio III  

The design of non-residential projects of moderate complexity and scale with more demanding siting and contextual considerations and more complex and less familiar user needs. Considered analysis of structure, construction, services, environmental control and building regulations and landscape design. Some group work, but largely individual work.

1.5110 Studio IV  

The design of a small-scale building in considerable depth including detailed design of all internal and external spaces including material and colour choices, fixtures and fittings, construction detailing, services and environmental control.

1.5111 Studio V  

The design of a relatively complex and large scale development, incorporating residential, involving a range of user groups. Resolution of conflicting issues such as site constraints, planning controls and building regulations, environmental context and social role of the development. Integration of structure, construction, services and environmental controls at an advanced level. Group and individual work.

1.5112 Studio VI  

Exploration and resolution of relatively complex lifestyles not necessarily of a known pattern for non-residential buildings, with emphasis on urban design and contemporary technology.

1.5113 Graduation Project  
Prerequisites: 196 credit points, including 11.5913.

This subject represents the culmination of the B.Arch course and comprises a design project resolved in depth in approved areas of architecture, including architectural design, urban design, interior design, construction, structure, services, acoustics, lighting or practice and management. Students are offered a project by the School, or may be offered the opportunity to choose their own project to be submitted to the Head of School for approval two weeks before the commencement of the session in which the student intends to enrol.

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

Architectural Communication

11.5201 Architectural Communication I  
Prerequisites: Nil.

Introduction to communication theory and practice in relation to Architecture. Spatial communication: plane and solid geometry; manual drafting skills; parallel and conic projections; skigraphy. Lettering. Graphic design: colour theory; rendering techniques; drawing from outdoor and studio subjects. Written and oral communication: study and research skills; introduction to scholarly writing; oral presentation skills. Introduction to the computer as a problem-solving tool in architecture; description of computing technology.
11.5202 Architectural Communication II

Prerequisite: 11.5201.


11.5203 Communication Seminar I

Prerequisite: Nil.

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

11.5204 Communication Seminar II

Prerequisite: 11.5101, 11.5501, 11.5601, three from 11.5203, 11.5904, 11.5504, 11.5604.

Perspective and rendering techniques, graphic presentation of natural and man-made environment, model making for design study and presentation. Introduction to the computer and its application to architecture. Further applications of the computer. Exercises related, when appropriate, to design projects in Studio II.

11.5205 Communication Seminar III


Introduction to the techniques and processes of computer aided drafting for the production of architectural drawings; hands-on experience.

11.5210 Communication Seminar IV


Communication theory debates and discussions. Exercises in advanced graphic analysis and presentation, rendering and model making. Use of the computer in architectural design and documentation. Exercises related, when appropriate, to design projects in Studio IV.

11.5211 Communication Seminar V

Prerequisite: 11.5110, 11.5210, 11.5310, 11.5510, 11.5710, 11.5910.

Communication theory debates and discussions. Exercises in advanced graphic analysis and presentation, rendering and model making. Use of the computer in architectural design and documentation. Exercises related, when appropriate, to design projects in Studio V.

11.5212 Communication Seminar VI


Communication theory debates and discussions. Exercises in advanced graphic analysis and presentation, rendering and model making. Use of the computer in architectural design and documentation. Exercises related, when appropriate, to design projects in Studio VI.

11.5213 Communication Seminar VII

Prerequisite: 198 credit points, including 11.5913

Communication theory debates and discussions. Exercises in advanced graphic analysis and presentation, rendering and model making. Use of the computer in architectural design and documentation. Exercises related, when appropriate, to design in the Graduation Project.

11.5220 Computer Graphics Programming I

Prerequisite: 11.5220.

Introduction to the fundamentals of interactive computer graphics programming: techniques of computer programming using a high-level language; use of standard graphics libraries; user interaction. Controlled series of programming exercises.

11.5221 Computer Graphics Programming II

Prerequisite: 11.5220.

Further aspects of interactive computer graphics programming: user interface techniques; colour manipulation; three-dimensional modelling. Development of an interactive computer graphics application program.

11.5222 Computer Applications I

Prerequisite: 11.5910, 11.5912.

Extended study of computer graphics applications in Architecture: advanced use of computer-aided drafting systems: introduction to computer modelling and three-dimensional graphics. Staged drafting and design exercises.

11.5223 Computer Applications II

Prerequisite: Design Elective Package 1.

Advanced use of three-dimensional computer graphics for the representation of built form in Architecture: model description; colour shading techniques; multiple light sources; surface texture. Design representation exercises.

11.5224 Advanced Graphics

Prerequisite: Design Elective Package II.

A theoretical and practical study of the relationship between the visual and plastic arts, Media and material studies. Development of a professional level of performance in adapting graphic theory and techniques to contemporary needs.

11.5225 Drawing

Prerequisite: 11.5910, 11.5912.

Direct drawing from life and man-made environment, media studies, to develop technical and perception skills. Gallery visits and drawing theory.

11.5226 Painting

Prerequisite: Design Elective Package I.

The theory and practice of painting. Figure and ground interaction, colour, media studies. Gallery visits and studies. Individual style and thematic development encouraged.
Theory of Architecture

11.5301 Theory of Architecture I

Prerequisite: Nil.

The meaning of design as designation for a purpose: aim, possibilities, acts, fulfillment, the four cornerstones of design around the central idea. The nature of corporeal, mental and spiritual influences flowing from man and the cosmos affecting the architectural endeavours. The task of composition, the whole and its parts generally. Introduction to form and its principal characteristics; the notion of fit. Specific studies of measure, extension and size related to architecture. The body of man taken in the singular and in the plural, as the basis of sizes in architectural interiors and exteriors. Subtle connotations of varied spatial extensions. Specific studies in compositions in plane and volume. Ordered and systematic relations between whole and part. Unity - multiplicity, continuity - alternation; rhythm, proportion.

11.5302 Theory of Architecture II

Prerequisite: 11.5301.

Methodical study of the design process. Analysis as means of understanding the fabric of life to be served by architecture. Detailed analysis of explicit and implicit human aims and spatial possibilities. The architectural idea as the unifying principle of creative synthesis and as contribution to the fabric of life. Further studies of the world order: the meaning of place, light, orientation, direction and sequence. The natural divisions of space and time, the regular solids, the geometrical order. Methodical studies of context and architectural fit by character, size, order, proportion and material selection. Specific studies of mental expectations and patterns of behaviour. Detailed consideration of mental effects rooted in instinct, emotion, perception, memory, reason, imagination and intention. The nature of behaviour - environment relationship, notions of personal space, territory, privacy and crowding. Cultural and personal variables. The meaning of built environments.

11.5303 Theory of Architecture III

Prerequisite: 11.5302.

Systematic and detailed analysis of a complex life-event to be served by architecture. Correct and incorrect divisions and separation of parts. Recognition of different human roles and experiences. The notion of a living whole translated into a built whole. Systematic studies of architectural ideas generating appropriate spatial arrangements. Detailed quantification of space requirements and material configurations dealing with control of climate, light and sound and with structural and constructional necessities. Further studies of form as principle: authority-dependence, completeness-transformation. Subtle influences of regions, localities and the cultural milieu. Introduction to the meaning of signs, symbols, styles and trends. Introduction to goodness, truth, honesty and beauty in architecture as implicit spiritual aspirations. Specific studies in the history of architectural theory from antiquity to the present day. Relationship between the theoretical percept, the cultural milieu and architecture as art. Careful consideration of the architectural ideas and of their translation into the built fabric by ordered geometrical relations. Studies in geometry and design. Introduction to the meaning of basic geometrical symbols.

11.5304 Theory Seminar I

Prerequisite: Nil.

Exercises in the application of 11.5301 Architectural Theory I related to projects in Studio I.

11.5305 Theory Seminar II

Prerequisites: 11.5101, 11.5501, 11.5601, 11.5701, three from 11.5203, 11.5304, 11.5504, 11.5604.

Exercises in the application of 11.5302 Architectural Theory II related to projects in Studio II.

11.5306 Theory Seminar III


Exercises in the application of 11.5303 Architectural Theory III related to projects in Studio III.

11.5307 Theory Seminar IV


11.5311 Theory Seminar V

Prerequisites: 11.5110, 11.5210, 11.5310, 11.5510, 11.5610, 11.5710.

Critical discussions and debates on the theoretical percepts of senior design projects arranged as a forum or as a teaching jury.

11.5320 Theory of Form

Prerequisites: 11.5910, 11.5912.

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

11.5321 Criticism and Evaluation

Prerequisites: 11.5910, 11.5921.

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

11.5322 Imagination C2
Prerequisite: Design Elective Package I.
Architecture built in the image of the cosmic order and of the ideas directing that order. The nature of imagination, analogy and proportion. The meaning of number, of the elements of space and time and of the geometrical order, and this image in architecture. Seminars and practical projects focus on selected case studies.

11.5323 Spirit in Architecture C2
Prerequisite: Design Elective Package II.
Spatial symbolism and intellectual intuition, principles and methods of sacred architecture. Spiritual doctrine reflected in the layout of Judeo-Christian architecture with reference to the architecture of sacred traditions. Seminars and practical projects focus on selected case studies.

History of Architecture

The aim of the history programme is to provide an overall view of the development of architecture, and its achievements within different cultural traditions, with reference, where appropriate, to Australian architecture, with a view to giving the student a fuller awareness of design, and the objectives and influences that shape it.

11.5401 Introduction to Architecture C1
Prerequisite: Nil.
The environment and human influence upon it. Human needs, resources of energy and materials and their utilization in architectural design. The design professions and the building industry.

11.5402 History of Architecture I C2
Prerequisite: Nil.
General exploration of the historical development of architecture. Definitions of architecture, and influences on architecture: geographical, climatic, cultural, social, religious, material. Selected site visits and projects.
Discussion and analysis of some major themes in architecture such as rationalism and romanticism, structural integrity, tradition and innovation, taste, style and decoration.

11.5403 History of Architecture II C2
Prerequisite: 11.5402.
A generally chronological account of the cultural development of architecture and its role in society up to the Industrial Revolution, within the western world and in other important cultural traditions, (a) from archaic historical times to the end of the 14th century, and (b) from the 15th century up to the early 19th century and the Industrial Revolution.

11.5404 History of Architecture III C2
Prerequisite: 11.5403
Antecedents of modern architecture. Industrialism in the 19th and 20th centuries. The interrelationship between architecture and the fine arts, and the development of various art movements.

The origins of and influences upon 20th century architecture. Functionalism v. traditionalism, international style, high-tech, post modernism, and current developments in international and Australian architecture.

11.5420 Building Conservation C2
Prerequisites: 11.5910, 11.5912.
Attitudes towards building conservation and introduction to guidelines and techniques for the treatment of old buildings, both heritage and common building stock, with regard to their preservation, restoration, reconstruction, adaptation for re-use, and repair. Preparation of conservation proposals and plans.

11.5421 Recent Australian Architecture C2
Prerequisite: Design Elective Package I.
History of Australian architecture: historical, human and environmental context of Australian architecture.

11.5422 Great Architects C2
Prerequisite: Design Elective Package II.
Detailed study of the theories and work of selected architects throughout history. Normally four architects will be studied, two from the 20th century and two prior to the 20th century.

11.5423 Urban Systems C2
Prerequisites: 11.5910, 11.5912.
Studies of the social and technological systems that determine the form of contemporary cities. Government systems and controls, land development economics, land use, transport, services.

11.5424 Urban Design C2
Prerequisite: Design Elective Package I.
Design Studies in the integration of buildings and groups of buildings in their urban context, and of spaces between buildings, accommodation of pedestrian and vehicular movement, micro-climate.

11.5425 Landscape Design C2
Prerequisite: Design Elective Package II.
Aesthetic appreciation of chosen environments both urban and natural. The treatment of spaces between and upon buildings. 'Hard' and 'soft' landscape treatments. Functional uses of open space within the built environment and the design of street furniture.

Architectural Construction

11.5501 Architectural Construction I C3
Prerequisite: Nil.
Introduction to the principles of architectural construction and their application to the design of simple, small-scale buildings. Architectural construction as a design activity and its relationship to building materials, structure, services, process and regulation. Basic building materials, systems and processes and their historic development. Introduction to materials science. Basic structure, properties, manufacturing techniques, use and performance of materials in building and artefact design. Construction design methodology, use of resource materials, basic dimensional co-ordination and construction drawing practice.

11.5502 Architectural Construction II C4
Prerequisite: 11.5501.
The principles of architectural construction applied to the design of buildings of moderate scale and complexity through

11.5503 Architectural Construction III  C2
Prerequisite: 11.5502.
The principles of architectural construction applied to the design of complex and large scale buildings. Appropriate construction systems, materials and organisation of the building process. Detailed analysis of junctions and connections between elements, components, materials and finishes. Construction durability, weathering and failure. Rationalised systems, prefabrication, modular coordination and construction documentation.

11.5504 Construction Seminar I  C4
Prerequisite: Nil.
Exercises in the practical application of materials science and the principles of architectural construction. Emphasis on the exploration of basic building materials, systems and processes, dimensional coordination and construction drawing relating where possible to Studio I communication and design projects.

11.5505 Construction Seminar II  C3
Prerequisites: 11.5101, 11.5501, 11.5601, 11.5701, three from 11.5203, 11.5304, 11.5504, 11.5604.
Exercises in the practical application of the principles of architectural construction to the design of small scale residential and non-residential buildings. Emphasis on common constructional systems using timber, masonry, steel and concrete, resource materials, dimensional coordination and construction drawing practice related where possible to Studio II design projects.

11.5506 Construction Seminar III  C3
Exercises in the practical application of the principles of architectural construction to the design of buildings of moderate scale and complexity. Emphasis on construction detailing as well as the general resolution of constructional systems related where possible to Studio III design projects.

11.5510 Construction Seminar IV  C2
Studio consultancy in the selection and application of structural and constructional systems, building materials and processes appropriate to Studio IV design projects.

11.5511 Construction Seminar V  C2
Prerequisites: 11.5110, 11.5210, 11.5310, 11.5510, 11.5710, 11.5910.
Studio consultancy in the selection and application of structural and constructional systems, building materials and processes appropriate to Studio V design projects.

11.5512 Construction Seminar VI  C2
Studio consultancy in the selection and application of structural and constructional systems, building materials and processes appropriate to Studio VI design projects.

11.5513 Construction Seminar VII  C2
Prerequisites: 196 credit points, including 11.5913.
Studio consultancy in the selection and application of structural and constructional systems, building materials and processes appropriate to the Graduation Project.

11.5520 Advanced Building Materials  C2
Prerequisites: 11.5910, 11.5912.
Analysis of the structure, classification, properties, manufacturing techniques, use and performance of constructional materials at an advanced level. New materials, their testing and development. Criteria for material selection, detailing and specification. Durability and deterioration of materials and their design implications. Case studies, site and plant visits, seminars.

11.5521 Advanced Construction Systems  C2
Prerequisite: Technology Elective Package I.
A review of recent developments, current trends and possible future directions in building design, construction systems, detailing and documentation. Case studies, projects, seminars.

11.5522 Construction Planning and Management  C2
Prerequisite: Technology Elective Package II
The role of the architect in construction planning and management. Pre-planning and building technology design for improved performance and management of the building process. Recent developments in constructional and structural engineering. Erection methods and equipment. Construction management and coordination of the building process. Building economics and cost planning, case studies, reports, seminars.

Architectural Structures

11.5601 Architectural Structures I  C2
Prerequisite: Nil.
Basic structural concepts: load, force, loadpath; resolution of forces, equilibrium; moment (overturning); stability (element, assembly) strength and stiffness; supports and connections; stress, strain, modulus of elasticity, tension, compression, shear, bending, torsion. Basic structural elements and their behaviour: cable and arch, strut and column, beam, truss, frame, grid, plate/slab, vault and dome, tent and pneumatic; load application, loadpath, connections, reactions at supports/connections, internal forces.

11.5602 Architectural Structures II  C2
Prerequisite: 11.5601.
The structural design process: definition of the structural task in relation to an architectural concept, system options and choice.
Environmental Control

The aim of the environmental control course is to present students the theory in daylight, artificial light, acoustics, thermal behaviour and the services to buildings in the context of modern building design.

11.5701 Environmental Control I
Prerequisite: Nil.

Human response to the environment: climate and its effects, environmental design methods for total human comfort, introduction to thermal, lighting and acoustic comfort and basic concepts, subjective and objective assessment of aural, visual and thermal environments, laboratory work and field studies.

Thermal environment: evaluation of thermal conditions, comfort indices, air quality and movement, solar heat gain; visual environment; psychological and physiological effects of light, performance of the visual system, visual discomfort, glare indices; acoustic environment; human hearing, human response to vibration, psychological and physiological effects of noise.

11.5702 Environmental Control II
Prerequisite: 11.5701.

The role of the building envelope; thermal performance; principles of heat transfer, insulation, condensation and vapour barriers, strategies for modifying envelope properties; daylight performance; natural light sources, traditional methods of daylighting buildings, window design and energy consumption, sun control, patterns of innovation and change; acoustic performance; external noise levels, selection of building envelope elements, methods of noise control; integrated envelope design, computer.

Design of the interior environment; thermal design; heating and cooling of buildings, thermal storage effects, passive methods of design; visual design; electric light sources, integration of daylight with electric light, quantitative and qualitative requirements, visual appraisals; acoustic design; acoustic design criteria – ambient sound levels and reverberation time, selection of interior building materials; integrated interior design, laboratory work and computing.

11.5703 Environmental Control III
Prerequisite: 11.5702.

Building services; sources and distribution of water, wastes and energy supplies, application of electric power, hydraulics, vertical transport, fire protection in buildings, equipment selection and space allocation. Air conditioning, heating and ventilating of buildings, design of systems, selection of equipment and allocation of space.

11.5704 Environmental Control Seminar I
Prerequisite: 11.5701, 11.5501, 11.5601, 11.5701, three from 11.5203, 11.5304, 11.5504, 11.5604.

Emphasis on the implications of sun and climate in the design of comfort conditions in buildings, the relation between climate, occupants and envelope design, and envelope design and energy consumption; and the application of strategies to modify envelope properties; experimentation with innovative...
methods to introduce daylight into buildings for human well-being by model studies in design projects in Studio II. Analysis calculation and design using computer software.

11.5705 Environmental Control Seminar II  
Prerequisites: 11.5102, 11.5602, 11.5702, four from 11.5204, 11.5304, 11.5504, 11.5704.

Emphasis on mechanical engineering systems in buildings. Analysis, calculation and design, selection of equipment and allocation of space. Application of thermal, lighting and acoustics principles to promote human comfort in buildings.

11.5710 Environmental Control Seminar III  

Lighting, acoustics and thermal design linked where appropriate to design projects in Studio IV. Design of selected HVAC systems and components.

11.5711 Environment Control Seminar IV  
Prerequisites: 11.5110, 11.5210, 11.5310, 11.5510, 11.5710, 11.5910.

Analysis, calculation and design of selected systems and components of mechanical engineering systems, worked examples of lighting and acoustics, related when appropriate to design projects in Studio V.

11.5712 Environmental Control Seminar V  

Analysis, calculation and design of selected systems and components of mechanical engineering systems, worked examples of lighting and acoustics, related when appropriate to design projects in Studio VI.

11.5713 Environmental Control Seminar VI  
Prerequisites: 196 credit points, including 11.5913

Analysis, calculation and design of selected systems and components of mechanical engineering systems, worked examples of lighting and acoustics, related when appropriate to design projects in Studio VI.

11.5720 Design for Energy Efficiency  
Prerequisites: 11.5910, 11.5912.

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

11.5721 Design of Lighting  
Prerequisite: Technology Elective Package I.

Major factors influencing design and application in buildings. Evaluation of impact of current technologies on lighting using computer simulations, appraisals and model studies. Design project.

11.5722 Acoustics Studies  
Prerequisite: Technology Elective Package II.

Experimental investigation and research in selected aspects of acoustics. Laboratory and field work, methodology of results, development of techniques of application. Laboratory work.

Architectural Practice

11.5810 Architectural Practice I  
Prerequisite: 11.5103.


11.5811 Architectural Practice II  
Prerequisite: 11.5810.


11.5812 Architectural Practice III  
Prerequisite: 11.5811.


11.5813 Architectural Practice IV  
Prerequisite: 11.5811.

Introduction to management theory. The structure and organisation of an architectural office; aspects of company and partnership law and insurance. Business principles and management procedures relevant to an architectural office.

11.5820 Building Economics and Development  
Prerequisite: 11.5910, 11.5912.


11.5821 Project Management  
Prerequisite: Technology Elective Package I.


11.5822 The Architect and the Law  
Prerequisite: Technology Elective Package II.

1. Arbitration and litigation. 2. Appeals to the Land and Environment Court. 3. Environment law. 4. Industrial law. 5. Case studies.
Other Required Studies

11.5910 Practical Experience C0
Prerequisite: 11.5103.
Each student is required to obtain, before enrolling in Year 5, practical experience under a registered architect for a period of six months. The experience is to be recorded in a log book to be signed by the registered architect. No other subject may be taken concurrently with Practical Experience.

11.5912 Research Methods C2
Prerequisite: 11.5103 for BArch; 11.5916 for BSc(Arch).
The processes and methods of research, writing and referencing for publication of academic works.

11.5913 Dissertation C6
Prerequisite: 11.5912.
An individual study, on an approved topic, taken under staff supervision, with the purpose of allowing the student either to gain knowledge in some aspect of architecture which is not covered in the course, or to increase knowledge in some aspect which has been covered. It requires the gathering of data, analysing that material and reaching a conclusion. The work is typewritten, in concise and clear English, properly ordered and referenced and presented in A4 format. The work is normally about 10,000 words, illustrated as necessary. To be completed before enrolment in Graduation Project.

11.5914 Special Research Programme I C5
(For BSc(Arch) only)
Prerequisite: Head of School's approval.
Programme selected by the student in accordance with his or her particular interest and approved by the Head of School. Such programs include studies in design, technology, architectural and materials sciences, conservation, history, communication and management.

11.5915 Special Research Programme II C5
(For BSc(Arch) only)
Prerequisite: 11.5914, Head of School's approval.
Programme selected by the student in accordance with his or her particular interest and approved by the Head of School. Such programs include studies in design, technology, architectural and materials sciences, conservation, history, communication and management.

11.5916 Special Research Programme III C5
(For BSc(Arch) only)
Prerequisite: 11.5915, Head of School's approval.
Programme selected by the student in accordance with his or her particular interest and approved by the Head of School. Such programs include studies in design, technology, architectural and materials sciences, conservation, history, communication and management.

11.5917 Research Project C8
Prerequisites: 11.5916, 11.5912.
This project is available to those students intending to obtain the degree of BSc(Arch) and is intended as the culminating study of that area of architectural endeavour in which the student wishes to major. The area selected would be investigated to a degree of depth not normally required by practising architects, and thus would serve as an introduction to professional or consulting expertise in one aspect of architecture. The research project, communicated graphically or in writing, is to integrate the student's knowledge and skill in the selected area of study and the topic is to be submitted for approval by the Head of School. The Research Project can be credited only towards the BSc(Arch) degree.

11.5918 Honours Project I C22
Prerequisite: 131 Credit points.
This subject is required for students who may enrol in the BSc(Arch) degree course at Honours level and represents the architectural endeavour in which the student wishes to major. The project should demonstrate a depth of knowledge of the chosen aspect of architecture that extends beyond that normally required of a practising architect. It may be a graphic and/or written presentation. It normally extends over two semesters and the proposed program is to be submitted for approval to the Head of School five weeks before the beginning of the session in which the student intends to enrol in the Honours Project.

11.5919 Honours Project II C22
Prerequisite: 11.5918.
This subject is required for students who may enrol in the BSc(Arch) degree course at Honours level and represents the architectural endeavour in which the student wishes to major. The project should demonstrate a depth of knowledge of the chosen aspect of architecture that extends beyond that normally required of a practising architect. It may be a graphic and/or written presentation. It normally extends over two semesters and the proposed program is to be submitted for approval to the Head of School five weeks before the beginning of the session in which the student intends to enrol in the Honours Project.

Other Elective Studies

11.5920 Architectural Research I C4
Prerequisite: 11.5910, 11.5912.
An elective designed for students wishing to pursue an independent course of study in a field of architecture not falling specifically within the domain of any existing elective. Students are required to present a detailed program of study for approval by the Head of School by the end of the semester preceding that in which it is intended to enrol in this elective. For special conditions consult Head of School.

11.5921 Architectural Research II C4
Prerequisite: Technology Elective Package I or Design Elective Package I.
An elective designed for students wishing to pursue an independent course of study in a field of architecture not falling specifically within the domain of any existing elective. Students are required to present a detailed program of study for approval by the Head of School by the end of the semester preceding that in which it is intended to enrol in this elective. For special conditions consult Head of School.
11.5922 Architectural Research III C4
Prerequisite: Technology Elective Package II or Design Elective Package II.

An elective designed for students wishing to pursue an independent course of study in a field of architecture not falling specifically within the domain of any existing elective. Students are required to present a detailed program of study for approval by the Head of School by the end of the semester preceding that in which it is intended to enrol in this elective. For special conditions consult Head of School.

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

Industrial Design

In any academic year, one or more of the following undergraduate subjects may be offered to students undertaking qualifying programmes leading to admission to the Master of Industrial Design course or the Master of Science (Industrial Design) course in the Graduate School of the Built Environment. Students in the Bachelor of Architecture and Bachelor of Science (Architecture) courses may not enrol in any of these subjects without the permission of the Head of the School of Architecture.

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

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

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

11.4740 Industrial Design 1 C6
Prerequisite: 30 credit points.
The emergence and development of the industrial design profession from 1850 to the present day. Introduction to the principles of ergonomics, two- and three-dimensional design communication, and industrial design problem solving. Studio: Design project work applying industrial design criteria and methods to the solving of design problems; the solutions to be evaluated by means of prototypes, drawings and reports.

11.4741 Industrial Design Methods A C2
Prerequisite: 11.4740. The need for design methodology and its application in the industrial situation; strategy planning, the methods with examples of their application; the problems of problem solving.

11.4742 Industrial Design Methods B C5
Prerequisites: 11.4740, 11.4741. The systematic application of industrial design research, practice, techniques and methodologies to the analysis, briefing and solving of a complex problem involving product systems.

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

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

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

11.4746 Industrial Design 3B C10
Prerequisites: 11.4742, 11.4743, 11.4744. The application of industrial design research and practice methodologies to the study and solving of selected design problems.

11.4747 Industrial Design Special Project C10
Prerequisite: 100 credit points. Selection on merit.
An elective subject intended for students wishing to pursue an independent course of study within an area of industrial design not falling within the domain of any existing elective. Students are required to present a detailed program of study for approval to the Head of School during the semester preceding that in which it is intended to enrol in this elective.
Building

Construction Stream

29.411 Surveying for Architects and Builders  S2 LT5
Compulsory. Prerequisite: Nil.

35.001 Construction 1 (Domestic Buildings)  S1 LT3
Compulsory. Prerequisite: 35.001.
Functional requirements and methods of building single family dwellings: residential slabs and footings for various site conditions; brick, brick veneer and timber walls; flooring, ceiling and roof framing for one and two storey houses; domestic joinery; staircase construction; finishes; plumbing, drainage and electrical services; methods of setting out and supervision.

35.002 Construction 2 (Low Rise Domestic)  S2 LT4
Compulsory. Prerequisite: 35.001.
Small multi-storey buildings from the functional and construction operation viewpoints. Study of the major building trades and crafts including tools, plant and materials, and the on-site observation of trade practices: materials, techniques, terminology, quality control and supervision. Foundations and footings; types of wall and frame construction; basement, ground floor and upper floor slab construction; methods of roofing, waterproofing; joinery; internal finishes; minor construction plant, formwork. Construction drafting, on-site observation and report on home unit building.

35.003 Construction 3 (Framed Building)  S3 LT4
Compulsory. Prerequisite: 35.002, 35.151.
Functional requirements and methods of constructing framed buildings: study of structural steel and concrete frames; large span factory roofing, precast concrete walling, tilt up construction, pneumatic formwork, slip form, lift slab, welding techniques, fire requirements, cladding methods, installation of cranes and machine footings, scaffolding, relevant builder's plant and equipment including site works, dewatering, shoring, piling on site observation and report on factory building.

35.004 Construction 4 (High-rise Buildings)  S5 LT4
Compulsory. Prerequisite: 35.003, 35.052.
Functional requirements and building techniques of high-rise buildings and major building projects: structural systems, enclosure systems and environmental control systems and their inter-relation from a building standpoint; various methods and materials commonly used to solve functional demands; comparison of systems of construction, selection of plant and equipment cranes hoists concrete pumps etc.; building loads and load factors; stability of structures and structural components; creep, settlement and other movement; principles of fire protection in high-rise projects; cladding in concrete, metal and glass; ceiling and partition systems; integration and coordination of services. On site observation and report on high rise building.

35.005 Construction 5 (Techniques)  S6 LT4
Compulsory. Prerequisite: 35.004.
Specialized building techniques employed on major projects including the use of plant, equipment and various construction systems: excavation equipment, shoring, ground anchorage, pile drivers, formwork, slip form, craneage, concrete handling. Construction methods with minimal impact on the environment. Integrated construction systems. Students undertake on-site studies. Emphasis on method of construction rather than the attributes of the finished product.

35.006 Construction 6 (Industrialization and Technological Change)  S7 LT2
Elective. Prerequisite: 35.005.
Factors influencing change in building techniques: technological change in building; implication of level of demand; new products, materials and processes; the regulatory system; the effect of government policy. The implications of changing techniques; the changing structure of work, skills loss, methodologies for coordinating building components; the evaluation of performance, social consequences of industrialization. Teaching centres around case studies of Australian and overseas building techniques, building systems, construction systems, portable buildings and mobile homes.

35.007 Construction 7 (Special Project)  S8 L2
Elective. Prerequisite: 35.005.
The study of special advanced topics in building construction on either a group or individual basis.

35.008 Construction Plant  S7 L2
Elective. Prerequisite: Nil.

35.010 Communications and Resource Usage  S1 LT3
Compulsory. Prerequisite: Nil.
Sources of information: using the library and off-campus sources including data bases and designs of surveys. Accessing information: reading, summarizing and note taking. Written communication: organization of and participation in meetings, seminars and lectures. Graphic communication: sketching, photography, drafting and detailing.

35.050 Soil Mechanics for Building  S6 LT2
Compulsory. Prerequisite: Nil.
The origins and formation of soils; clay mineralogy; classification of soils; soil as an engineering material; site investigation; boring, sampling and in-situ testing; shear strength of soils; stress distribution in earth masses; consolidation and settlement; earth pressure calculations; bearing capacity; improvement of soil properties by compaction and stabilization; introduction to foundation design; laboratory testing of soils.
35.051 Structures 1  
Compulsory. Prerequisite: Nil.

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

35.052 Structures 2  
Compulsory. Prerequisite: 35.051.

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

35.091 Built Environment 1  
Compulsory. Prerequisite: Nil.

The intention is to develop an understanding of the relevance of man’s "culture" (that thing which his social, economic, political, religious and physical environment gives rise to) to the nature of buildings and settlements which he devises, and an appreciation of the architecture and building (in particular in terms of materials and construction) of those cultures which can be seen to be providing the line to modern "western" building from as far back as "the stone ages".

35.092 Built Environment 2  
Elective. Prerequisite: Nil.

Development of an understanding of the nature of the C20th "western" industrial city in general and C20th Sydney in particular: how the urban system functions and the forces and skills at work in its continuing growth. Lectures will sketch the essentials of western industrialisation in the 18th and 19th centuries, urban problems facing Third World countries, the particular problems of C20th Sydney in terms of socio-political environment, environmental pollution, environmental impact statements, transport, urban decay and renewal and expansion, the current planning and development framework, and possible futures for the built environment in Australia.

Building Science Stream

1.931 Physics  
Compulsory. Prerequisite: Nil.

Energy transfer: conduction, convection, radiation, emittance, absorptance; Joules equivalent; thermometry; heat transfer through materials; thermal storage; thermal resistance; insulation; water vapour, condensation and vapour barriers. Refrigeration theory; properties and characteristics of refrigerants. Electrostatics and electromagnetism: DC circuits; Coulomb's law; electric field; electric potential; capacitance; conductors; resistivity; Atomic view of conduction; EMF; Kirchoff's laws; magnetic induction; torque on a coil in a magnetic field; moving coil meter; Wheatstone bridge; potentiometer; Faraday's law; transient circuits. AC power and circuit theory. Sound: longitudinal waves; overtones; intensity levels; decibels; quality of sound; assessment of noise annoyance; airborne sound transmission; sound attenuation; transmission loss; adsorption coefficients; partitions; recommended acoustic criteria; introduction to auditorium acoustics.

35.111 Building Science 1 (Materials)  
Compulsory. Prerequisite: Nil.

Properties of materials; plasticity, elasticity, density, porosity, hardness. Optical, electrical, thermal and acoustic properties. Deterioration. Properties and manufacture of building materials; wood, wood products, cements, limes, concrete, bricks; asbestos cement, ceramics, plastics, sealants and mastics, stones.

35.112 Building Science 2 (Concrete and Metals)  
Compulsory. Prerequisite: Nil.

Concrete technology: cement, aggregates, water and admixtures; properties of fresh concrete; strength considerations; durability, shrinkage and creep; special concretes; non-destructive testing; mix design. Metals in building: structural ferrous alloys; structural and architectural non-ferrous alloys; corrosion and protection; welding; types of failure, brittle fracture, fatigue, creep; impact resistance; tensile properties; hardness; strain hardening. Fire: behaviour of building materials and structures.

35.113 Building Science 3 (Energy and Thermal)  
Elective. Prerequisite: Nil.

Building with climate: climate (global and local); thermal comfort factors; effective temperature; solar radiation; heat flow through building materials; thermal storage; thermal resistance; insulation. Principles of thermal design: thermal control, ventilation and air movement. Solar control: solar position diagrams; shading devices; shading by buildings and trees. Daylight: availability and intensity; design considerations. Artificial light: light sources; quality; spatial illumination; design considerations; maintenance.

35.114 Building Science 4 (Timber)  
Elective. Prerequisite: Nil.

The production and marketing of timber; test methods and properties; stress grading of timber, codes of practice, chemical, physical and biological attack and weathering of timber, protection and preservation; thermal, acoustic and aesthetic properties: factory techniques, plywood, particle board, hardboard, softboard, prefabricated building components, laminated beams.

35.151 Building Services 1 (Hydraulics)  
Compulsory. Prerequisite: Nil.

Hydraulic services pertaining to small and medium size projects; hot and cold water reticulation; sewer and storm water drainage; sanitary plumbing, introduction to fire fighting equipment and services; regulatory authorities and requirements.

35.152 Building Services 2 (Mechanical)  
Compulsory. Prerequisites: 1.932, 35.151.

Ventilation theory; ventilation systems and equipment; refrigeration theory; air conditioning heat loads; air conditioning equipment; electrical equipment; telephones and security; lifts and escalators; recess; plumbing; fire protection; garbage and incinerators.
35.170 Mathematics for Builders  
Compulsory. Prerequisite: Nil.

Calculus: limits and continuity of functions; differentiation and integration of polynomial, exponential and logarithmic functions; the definite integral; practical applications. Probability: discrete events, sample spaces and probabilities; complex events; probability trees; distribution of random variables; expected value and decision analysis. Statistics: mean, mode, median, standard deviation and variance of normal and binomial distributions; hypothesis testing; linear and multiple regression; non-parametric statistics; chi-square testing; descriptive presentation of data.

Management Stream

35.261 Management 1 (Management Principles)  
Compulsory. Prerequisite: Nil.


35.262 Management 2 (Planning)  
Compulsory. Prerequisite: 35.261.

Introduction to Operation Research, OR techniques and their relevance to building, concept of planning and control, CPM, PERT, Line of Balance, Multi-activity Chart, computer applications of CPM. Principles and application of Work Study. Risk analysis, decision making process.

35.263 Management 3 (Contracts)  
Compulsory. Prerequisite: 35.262.


35.264 Management 4 (Personnel Management)  
Compulsory. Prerequisite: 35.264.

Personnel management, human motivation, employment, industrial relations, employers and employer groups, unions and unionism. Conciliation and arbitration. Site organization (labour aspects), safety management. Quality assurance.

35.265 Management 5 (Project Management)  
Compulsory. Prerequisite: 35.264.

Project management and site organization. Theory and concept of project management. Alternative organization of the building process. Application of project management in building. Management of pre-design, design and construction activities. Strategic planning, construction strategy. Site organization (physical), planning of materials handling. Project management control.

35.266 Management 6 (Corporate Strategy)  
Elective. Prerequisite: 35.265.

Corporate strategy and the overall general management of an enterprise in the building and development industry.
use of time-sharing computing facilities; development of basic programming skills.

35.282 Computer Applications in Building  

Compulsory. Prerequisite: 35.281.

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

35.283 Systems Analysis and Modelling  

Elective. Prerequisite: 35.283.

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

35.284 Building Information Systems  

Elective. Prerequisite: 35.282.

The specification, development and use of computer based information systems in the management of building companies. Information system components, attributes and lifecycle; system and procedure representation tools. Data files structures and access modes; database systems. Information system response, distribution, size and controls; logical and physical design. Computer hardware; communications; local area networks. Case studies of computer systems in building construction and management companies. The subject involves extensive use of microcomputer based database and spreadsheet packages.

Building Economics Stream

14.001 Introduction to Accounting A  

Compulsory. Prerequisite: Nil.


14.002 Introduction to Accounting B  

Compulsory. Prerequisite: 14.001.

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

35.301 Quantity Surveying 1  

Compulsory. Prerequisite: Nil.

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

35.302 Quantity Surveying 2  

Compulsory. Prerequisite: 35.301.

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

35.303 Quantity Surveying 3  

Elective. Prerequisite: 35.302.

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

35.311 Building Economics 1  

Compulsory. Prerequisite: Nil.

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

35.312 Building Economics 2  

Compulsory. Prerequisite: 14.002.

The business environment; business structures; taxation, depreciation; operating costs; economics of building plant and materials handling systems; financial control in the erection, management and demolition of buildings.

35.313 Building Economics 3  

Elective. Prerequisite: 35.312.

Capital investment analysis; advanced investment evaluation; feasibility studies; financial management and analysis; growth and development; the financial market.

35.321 Estimating 1  

Compulsory. Prerequisite: 35.301.

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

35.322 Estimating 2  

Elective. Prerequisite: 35.321.

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

Elective. Prerequisite: Nil.


35.391 Land Economics

Elective. Prerequisite: 35.312.

Ability to apply relevant valuation techniques to a broad range of common land use types; acquisition of knowledge of efficient property management techniques; identification of a range of unusual property types which require specialised valuation skills and knowledge and the means of developing such skills and knowledge; knowledge to develop novel valuation techniques for application to specific property types; ability to determine the highest and best use for nominated property types; the application of inspection techniques for broad property types; competency in the use of property valuation and inspection aids; familiarity with resource materials and information sources required to undertake specific types of valuation.

35.392 Property Development

Elective. Prerequisite: 35.312.

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

35.393 Management of Buildings

Elective. Prerequisite: Nil.

Maintenance and obsolescence; economics of refurbishment; marketing; tenancy management; building control and security systems; management of commercial, retail, industrial and large scale residential complexes; legal aspects of tenancy management; energy conservation; taxation law and implications.

35.401 Thesis Preparation

Compulsory. Prerequisite: Nil.

Thesis research requirements, format, writing style, mode of referencing, information sources, library facilities and thesis topic selection. Students will be required to produce a summary of objectives, a plan for their subsequent thesis research and a preparatory table of contents.

35.402 Thesis

Compulsory. Prerequisite: 35.401.

Results of research on selected Thesis topic, written up in technical report format. The Thesis requires the student to survey the literature on the chosen topic, collect information and data, effectively process and document the research results and draw reasoned conclusions from them.

35.410 Industry Program

Compulsory. Prerequisite: Nil.

70 days of approved building industry experience, which may be taken non-contiguously at any time prior to graduation. Submission requirements are a daily diary and a letter from the employer.

35.420 Special Programme

Elective. Prerequisite: Nil.

This subject, to be presented by visiting lecturers, would allow presentation of subject material not covered elsewhere in the course. The subject is to be presented on an occasional basis; subject content dependent on lecturer.

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**Town Planning**

**Core Subjects**

36.211 Introduction to Planning

A broad range of aspects of planning, including: the aims of planning and its role in shaping our environment; the development and characteristics of urban settlements throughout history, as well as today; categories of land-use and their functions; forms of transport; planning at regional and local levels; neighbourhood theory and practice; planning legislation and administration; appearance and design of urban areas.

Lectures, seminars and films are used to present the material, in conjunction with project exercises. These include studies of past planning publications and current issues under discussion in the press, as well as an in-depth survey and analysis of specific localities. A three-day excursion, visiting planning offices and developments outside Sydney, is part of the subject. Skills are developed in observing, recording, analysing and presenting information. The use of imagination and an enquiring frame of mind are encouraged.

36.212 Planning Studies

Lectures, seminars and projects concerning the principles of research related to the assessment of the urban environment.

1. **Role of Planning Studies**: the purpose and scope of planning studies in the planning process, relationship to planning objectives and decision making.  
2. **Research Methodology**: social science research methods. Study design, sampling techniques, questionnaire design, data collection, data analysis using packaged computer programs. Introduction to statistics. Introduction to demographic concepts and methods.  
3. **Social Science Research and Planning Issues**: a series of student-led seminars that focus on topics of importance to planning (e.g., measuring environmental quality, social indicators, social mix, community...
design and crime) which have been studied from a variety of viewpoints using various research techniques.

36.213 Local Planning 1
Prerequisites: 36.211 and 36.212.
A lecture, seminar and practical exercise program dealing with the principles and practice of planning, the places where people live, from the small scale of housing to the larger scale of urban districts. All the factors which influence the shape of urban areas, and which affect the quality of life within them: physical factors – noise, sunlight and shade, microclimate and wind, soils and other site engineering factors, traffic and accessibility, and design and aesthetics; with socio-economic factors – demography, ethnicity, and politics; and with the processes of urban change. Students undertake reading and exercises in integrated planning related to their skills and abilities, and by the end of the subject are brought to the level at which they will be able to prepare simple local environmental studies, and to assess development applications with a full awareness of the issues to be considered and the implications of their decisions.

36.214 Local Planning 2
Lectures and seminars focusing on areas similar to those treated in Local Planning 1, but permitting the students to explore issues in more depth. Emphasis is placed on the reasons for urban areas being as they are - the factors which influence the existing form of an urban area from the small residential scale to that of the integrated district; the reasons for growth and change occurring in the way that they do and the ways in which planners can affect these; the implications of the planner’s actions at the local scale for the physical and social environment; and the ways in which urban areas can be planned, altered and designed to make the best use of the environment while conserving its desirable qualities and aiming for beauty and equity. The subject is undertaken by a series of lectures, directed reading, seminars and case studies.

36.215 Planning Law and Administration
Prerequisites: 36.213 and 36.218.
Theory and the practice of techniques and the administrative procedures needed to transform the policies and details of planning proposals into documents which have legal effect. The subject comprises three parts, Planning Law, Planning Administration and Land Valuation. 1. Planning Law: conceptual/theoretical nature of the law, the relationship between the environment context, the Crown, the parliament and the judiciary, the ways in which the laws are made and promulgated, the relationship between laws and regulations, the legal concept of property in land, the definition of various legal concepts of interests in land, the Australian Constitution and the legal relationship between the Commonwealth and the States, particularly in regard to matters affecting land, the place of administrative law. An historical introduction to planning law in Australia. A detailed account of the principles and practice of strategic and statutory planning in Australia. State environmental planning policies, regional environmental plans, local environmental plans, the role and function of environmental studies, statutory mapping, the development application process, the appeal process, the settlement of disputes. 2.

Planning Administration: administrative context within which planning operates as a function of government, especially the role and function of statutory bodies in the planning and environment area, the administration of the planning function at national, state and local levels, the art of management, administrative theory, personnel administration, the role and responsibility of the professional planner in the public and private sector. 3. Land Valuation: the principles and practice of land valuation in Australia. Definitions of value, methods of valuation, the role of the valuer, compensation and betterment.

36.218 Regional Planning 1
Prerequisites: 36.211 and 36.212.
Introduction to major land-use and infrastructure patterns, economic and social processes, in large urbanised and less urbanised regions; examples of the latter include, respectively, metropolitan Sydney and the far north coast of NSW. The biophysical, social, and economic dimensions of regional systems, and the typical public management issues to which their operation gives rise, are analysed. Regional management is presented as a means of meeting social and economic objectives of the community, both in itself and by providing a policy framework within which local government planning operates. Lecture and tutorial format.

36.219 Regional Planning 2
Prerequisite: 36.215 and 36.218. Co-requisite: 36.422.
Treats, at a higher level, selected issues raised in Regional Planning 1. Current issues in regional spatial and economic development planning, both in Australia and in other parts of the world, are examined. Detailed treatment is given to strategies for the management of complex regional systems. Teaching is mostly in seminar format.

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

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

Related Subjects
36.134 Communication Techniques 1
Graphics as an effective communication medium for town planners. Technical information and studio experience in essential skills for creative graphics as a functional tool for communicating factual information to peers and clients. Exercises in basic drawing, drafting and lettering.
36.131 Communication Techniques II  
A “hands-on” introduction to and exploration of various non-graphic techniques used by planners to communicate information. The students are taught about and undertake exercises in: reports and letter writing – language, structure and style; audio-visual presentations – video, slide tape, etc; public speaking in a variety of situations from large meetings to telephone; models – the techniques and uses of physical models.

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

36.216 Planning Law and Administration II  
The objective of this subject is to provide practical guidance on the operation of the Land and Environment Court, the significance of court judgments and the role of planners. While emphasis is placed on taking steps in plan making and development control to avoid planning appeals the major concern is with preparing for an appeal – legal research, preparation of evidence, appearing as a professional witness and small-group psychology.

36.222 Computers and Information Systems  
Components of computers and their interrelationships; time sharing, batch and stand-alone processing. Exercises using integrated software including data bases, spreadsheets, graphics and word processing. Planning information systems: applications, establishment, maintenance.

36.223 Computer Applications in Planning I  
Computers in the planning professions. Components of computers and their interrelationships; time sharing, batch and stand-alone processing. Exercises using integrated software including data bases, spreadsheets, graphics and word processing. Planning information systems: applications, establishment, maintenance.

36.228 Transportation Planning  
The relationship between the planning and management of transport and the planning and management of land-use and the environment. Transport demand and supply at strategic, tactical and operational levels; networks; policies for the integrated management of precincts, corridors and centres; transport assessment of development applications; environmental assessment of transport proposals. At least one computer application is tested, and there are one further assignment and a number of small exercises to develop a basic skill in analysis.

36.230 Politics, Power and Policy  
The aim of the subject is to create an understanding of the complex forces and processes (political, ideological, economic etc) which operate in the management of urban areas. Issues covered will include: relationships between urban government, politics, planning, the community and various interest groups. Urban theory. The relationship between public policy and planning. The social context of planning. The different social needs within Australian society. The formulation and implementation of policy.

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

36.233 Environmental Science II  
Introduction to methods used to incorporate consideration of physical environmental variables into the planning process.

36.234 Urban Design  
The aim is to develop a greater awareness of the character and quality of our physical surroundings and to provide some knowledge as to how improvements can be made. Slide lectures and site visits are used to illustrate good or interesting developments in Australia and overseas. Townscape elements are studied and performance standards and other controls affecting the appearance are discussed. Small design exercises and, where feasible, at least one bigger project dealing with a real situation are undertaken.

36.235 Urban Society and Sociology  
A series of lectures and seminars on the relationship between planning and the social structure of urban areas with reference to both social theorists and empirical studies. The origins and concerns of the discipline of sociology and of urban sociology. Urban effects on living patterns. The relationships between different groups, including town planners, in the urban context. The evaluation of planning objectives and outcomes. Sociological views of the planner’s role in contemporary urban society.

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

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

36.452 History of Town Planning  
Brief review of planning theories and practices before the Industrial Revolution. Planning theories and practices in the late 19th and early 20th century. The birth and development of the town planning profession in Australia and overseas. The development of Australian towns and suburbs to the present day. Recent planning theories and practices. The material is covered through lectures, essay projects and discussion seminars.

36.4611 Engineering A  
Transport engineering: road hierarchy, road geometry, arterial roads, access streets, intersections, cross sections, road
layouts in residential areas, public transport. Traffic and environment: accidents and safety, noise, air pollution. Traffic engineering: characteristics of road vehicle, driver, and road system, levels of performance, traffic management.

36.4612 Engineering B S1 L1
The provision of public utilities: town water supplies, sewerage, drainage, flood management, electricity and gas supply, telecommunications, waste disposal.

36.421 Integrated Planning Project 1 S2 L2T6
Co-requisite: 36.214.
Each year a project is designed which requires knowledge and skills from the several sub-disciplines of planning. The aim of the project is to further develop skills in the complementarity of knowledge and perspectives typically required to deal with complex problems in the real world. Depending on the topic under investigation, students may be required to attend an off-campus survey camp of up to one week's duration. The project will involve research, analysis, planning and design, and implementation.

36.422 Integrated Planning Project 2 S1 L3T9
Co-requisite: 36.219.
Each year a project is designed which requires knowledge and skills from the several sub-disciplines of planning. The aim of the project is to further develop skills in the complementarity of knowledge and perspectives typically required to deal with complex problems in the real world. Depending on the topic under investigation, students may be required to attend an off-campus survey camp of up to one week's duration. The project will involve research, analysis, environmental planning and implementation.

36.503 Practical Experience
For the purpose covered by Session 2 of Year 3 and Session 1 of Year 4 the students may 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 Head of the School of Town Planning for approval.

Students are expected to attend a seminar to discuss their experience approximately half way through their year off campus and are required to submit a paper describing and assessing their experience when they enter Year 4, Session 2.

Planning Electives
Students are required to select an elective from the topics listed (subject to availability) for the session where such an elective is part of the course program. Students are permitted to select electives offered by other schools subject to approval of the lecturer concerned and the Head of the School of Town Planning.

36.8300 Planning Elective S3
For initial enrolment only.

36.8301 Residential Planning 4CCH
Procedures and legal controls over land subdivision in NSW, land studies in terms of climate, terrain, vegetation, slopes, soils, drainage, etc; land development in relation to earthworks, roads, drainage and other utilities; detailed consideration of road and drainage design; subdivision design, land values and land economics. Innovatory designs.

36.8302 Local Planning 3 4CCH
Research and design into a topic at the town scale of current concern in planning.

36.8303 Regional Planning 3 4CCH
Planning methodology in metropolitan areas; a critical overview and a detailed examination of planning processes, policies and programs for selected areas/functions/institutions.

36.8304 Rural Planning 4CCH
Original research into a topic of current concern in rural planning.

36.8305 Urban Conservation 4CCH
Definitions and philosophy of urban conservation; setting objectives and formulating policy, criteria for selecting and assessing conservation areas; planning consideration to protect and enhance the urban fabric; legislation and mechanisms for urban conservation existing in NSW and elsewhere; potential; some effects of urban conservation (physical, social, economic); attitudes to urban conservation; case study of selecting and planning a conservation area.

36.8306 Planning Law and Administration 3 4CCH
Aimed at increasing the student's knowledge and awareness of issues in the general areas of Planning Law, Planning Administration and Statutory Planning.

36.8307 Urban Studies 4CCH S2 L1T3
An evaluation of the effects of one or more aspects of the urban environment on individuals and/or communities. Emphasis on individual research which expands the student's experience in methodological and substantive areas beyond what is encountered elsewhere in the course.

36.8308 Social Planning 4CCH
Planning responsibilities in equalizing resources distribution. Discussion of consensual goal definition and achievement versus social engineering. Popular participation in planning: why, where and how. Methodology and aids to social planning. Policy formulation and case studies. The program is presented by and with practitioners in the field and includes role playing games and problem solving essay. If possible an involvement in an area project may be substituted for some of the program.

36.8309 Environmental Psychology 4CCH
The environment considered subjectively and objectively. Man as a social and psychological rather than a strictly economic being. The significance for decision-making, of individual and group values held on the environment (nature and man-made), from individual decision on where to live through to government decisions on policy. Forces influencing
the formation of these values. The distinction between value held and actual behaviour. The emergence of different viewpoints and resultant conflicts. The role of planning in understanding, anticipating and reconciling such conflicts.

36.8312 Transport and Environmental Management
4CCH
Related to the integration of transport and environmental management at the local level.

36.8313 Urban Design 2
4CCH
Research into and design of an area, from an urban design perspective.

36.8314 Computer Applications in Planning 2
S2 L1T3
Exploration in depth of an application of personal computers in planning.

36.4402 Planning (Special Subject)
2CCH

36.4404 Planning (Special Subject)
4CCH
Students have the opportunity to pursue a subject of special interest related to planning, depending on staffing resources.

Subjects Offered to Other Schools

36.411 Town Planning
S1 L2T1
Architecture prerequisite: 11.5102.

36.4012 Environmental Planning
S2 L2

36.4014 Environmental Planning
S2 L2T2
The aim of this subject is to provide the student with an understanding of the objectives of environmental planning and how the system operates with particular reference to New South Wales. The nature of planning philosophy, environmental law and administrative structures are the core aspects of the course. Within this framework specific areas of concern are introduced and discussed - the central business district of cities, housing and equity, land-use and transport interaction, urban design, location theory, and urban and rural conservation.

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

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

Landscape Architecture

37.0001 Introduction to Landscape Architecture
S1 L1
Prerequisite: Nil.
Introduction to the discipline of landscape architecture. Outline of the program and its major stands of planning: design and implementation; natural and social sciences; skills (graphic, verbal and written communication). Brief exposure to examples of landscape planning, design and implementation throughout history, both overseas and in Australia. Issues and opportunities for landscape architects.

37.0014 Introduction to Computer Applications
S2 L1T1
Prerequisite: Nil.
The use of computers by landscape architects. Necessary knowledge to make full use of opportunities that the computer can provide including time sharing, batch processing and the use of graphic output. Components of the computer and their interrelationships, data processing, file management, use of library programs, interpretation of results, basic programming.

37.1112 Horticulture for Landscape Architects
S2 L1T1
Prerequisite: 43.202.
General horticultural study of propagation techniques, current nursery practice, impact of weeds, plant diseases, planting techniques and forestry practice. Plant collecting and identification.

37.1302 Landscape Analysis
S2 L2T4
Prerequisites: 27.818, 43.202.
Observation and interpretation of both physical and biological environment and their interrelationships. Landscape character through sensory inputs and prehistory. Fundamental characteristics of biological systems, with emphasis on relationships with the physical environment, particularly geology, soils. Survey of Australian plant communities and associated fauna with particular emphasis on the Sydney Region. Recording and presentation techniques associated with landscape surveys, field excursions.

37.1413 History of Landscape Architecture
S1 L2
Prerequisite: Nil.
Chronological development of cultural landscapes described by the investigation of philosophical, aesthetic and social aspects of Eastern and Western cultures with an emphasis on the Australian context. Changing attitudes to nature as reflected in land uses. The development of garden design and landscape architecture.

37.1513 Environmental Sociology for Landscape Architects
S1 L1T1
Prerequisite: Nil.
Perception of human requirements through behavioural studies, including territoriality and personal space identity. The effect of environmental changes on people. Sociological techniques for understanding user requirements. Post design evaluation. Application of simple statistical methods.
37.1616 Land Systems and Management S2 L1T1
Prerequisite: 37.5505.
An Investigation of resources and their management in relation to a range of land use types with an emphasis on an ecological approach. Management of both natural and cultural landscapes. Studies of specific examples and the effects of human impacts. Methods of conservation and rehabilitation considered. Field excursions.

37.3005 Research Methods S1 L1
Prerequisite: Nil.
Investigation of various research methods with application to study in landscape architecture. Development of the critical logical and stylistic skills involved in researching, writing and presenting essays, thesis, articles, papers and reports. Selection of topic for study in the subject 37.3007 Landscape Thesis.

37.3007 Landscape Thesis F
Prerequisite: 37.3005, 37.503.
A specialized individual study under staff supervision enabling the student to gain knowledge in some aspect of landscape architecture which has not been covered, or to extend the student's knowledge and/or understanding in which one has. As such the thesis is essentially evidence of this individual study. The study does not require original experimental research for the purpose of discovering new facts or the testing of an hypothesis. Neither is it an essay permitting the student's unsupported opinion. The topic of the thesis must be submitted for approval of the Professor of Landscape Architecture at the close of Year 3. The completed thesis must be submitted for examination at the close of Year 4.

37.3101 Landscape Graphics 1 S1 L2T2
Prerequisite: Nil.
Basic techniques of creative drawing with emphasis upon two dimensional graphics, use of pencil techniques. Assorted point media. Basic technical drawing with emphasis on two-dimensional graphics. Pencil techniques, drafting conventions, layouts, lettering, instruments and scale presentation. The principles and application of orthographic, axonometric and isometric projection. Development of plan and section drawing techniques.

37.3202 Landscape Graphics 2 S2 L2T2
Prerequisite: 37.3101.
Advanced techniques of creative drawing with emphasis on various media. Advanced technical drawing techniques including the use of various media, with emphasis on three-dimensional graphic concepts. Investigation of the basic principles of perspective theory. Application of perspective drawing to landscape architectural works, including landforms and other elements.

37.5014 Planting Design S2 L1T1
Prerequisite: 37.1112.
Plants as design elements; management of plant designs. Plant designs for specific sites; water plants, indoor plants, roof gardens, industrial and reclaimed sites. Observation of existing landscape schemes. Documentation of plant design.

37.5101 Design 1 S1 L1T2
Prerequisite: Nil.
Basic design theory to initiate a language of design elements. Investigation into materials and methods of expression used in art and design. Practical exercises in communication of ideas. Sketching in the field; studio work.

37.5202 Design 2 S2 L1T2
Prerequisite: 37.5101.
Design theory and processes including introduction of notions of spatial design and composition with reference to historical examples. Development of personal expression in art and design through exercises in selected media. Concepts of naturalism and abstraction. Sketching in the field; studio work. Site appreciation.

37.5313 Landscape Design 1 S1 L2T8
Prerequisite: 37.5202.
Basic Design. The interpretation of aesthetic values of sites and environments used in design exercises. Freehand drawing in the field. Applied Design. Logical design process applied to simple landscape design exercises with emphasis on site survey, site analysis and functional analysis. Applied graphic presentation techniques for site survey and analytical drawings.

37.5414 Landscape Design 2 S2 L2T8
Prerequisite: 37.5313.
Basic Design. Aesthetic appreciation of chosen environments both urban and natural. Graphic communication using selected media. Seminars on design philosophy. Applied Design. An understanding of materials and construction as applied to a range of medium scaled projects with an emphasis on practical relationships between design, use of appropriate materials and construction detailing.

37.5505 Landscape Design 3 S1 L2T6
Prerequisites: 37.5404, 37.5404, 37.7404.
More advanced design exercises within the context of both natural and urban environments. Emphasis is on gaining a knowledge of site planning with specific reference to sites located within the geological areas of the Sydney Region. Projects are of a large scale and further emphasis is directed towards consideration of appropriate environmental management and realisation of required maintenance and in relation to design solutions.

37.5606 Landscape Design 4 S2 L2T6
Prerequisite: 37.5505.
Experience of dealing with medium to large scale projects of specific land uses such as schools and residential sub-divisions, in which research is encouraged to assess environmental impacts, both physical and social. Emphasis on practical solutions and the preparation of contract documents including preliminary costing of design proposals.

37.502 Landscape Design 5 S1 L1T2
Prerequisites: 37.5606, 37.9206.
Investigation of the relationship between design and planning issues through a major Regional Study. Preparation of a masterplan for a selected site to be used in conjunction with Landscape Design 6. Discussions on contemporary environmental planning, design and management issues.
37.503 Landscape Design 6  
Prerequisite: 37.502, 37.9206. Four months approved practical experience.

Students are called upon to employ all the knowledge, skill and understanding they have gained in previous years. The graduating design project follows from 37.502 Landscape Design 5 and involves sketch design, detail design development and construction documentation. Emphasis on professional standard. Graduating project is related to the natural, urban or rural environment.

37.501 Urban Landscape Design  
An exploration of the relationships within the fabric of the urban environment including concepts of city functions and the analysis of disparate parts of the city with physical design being the primary focus. Context and place, history and theory are considered as well as analytical techniques. Design studies, lectures and seminars.

37.7113 Professional Practice A  
Prerequisite: 37.5104, 37.7205.

The Landscape Architect's responsibilities in Law. A study of the development of Law in Australia. Project procedure, the stages of a capital development project. Cost planning and feasibility studies. Construction contracts, including tender documentation, subcontract conditions and subconsultative responsibilities. The specification, its function and styles. A comparative analysis of various standard contract forms.

37.7203 Landscape Materials and Construction  
Materials science: the relationship between the properties and structure of materials. The derivation, conversion or production of materials commonly used in landscape construction. Investigation of structures: elements and systems, loads and structural requirements and basic structural form.

37.7114 Professional Practice B  
Prerequisite: 37.7113.

Preparation of contract documentation, including technical sections. Contract administration and project supervision, the role of the consultant. Tender evaluation, award of contracts, site inspections, variation procedure, claims and certificate issue and general site administration. Practical completion, and final certification. The rights and duties of the principal and contractor, including the relationship with consultants. Post-contract activities, maintenance manuals, appraisal of design and construction, and retention of records.

37.7204 Landscape Technology A  
Prerequisite: 37.7203.

Site surveying and mapping techniques. Land surface manipulation including contour planning and basic earthworks. Field work exercises.

37.7205 Landscape Technology B  
Prerequisite: 37.7204.

Landscape construction methods, including documentation of grading, drainage, earthworks and structures. Application of materials in detailed design development.

37.7515 Landscape Engineering A  
Prerequisite: 37.7205.

Design and construction techniques related to basic civil works, including earthworks, hydraulics, municipal services, urban and rural drainage. Interpretation of engineering design and development documents. Projects incorporating detail resolution of civil works.

37.7616 Landscape Engineering BS2  
Prerequisite: 37.7515.

Design and construction techniques related to transport planning and route alignment. Overview of the principles of transportation systems including railway permanent ways, airports, ports and harbours.

37.9105 Landscape Planning 1  
Prerequisite: 37.1504.

Basic methods and techniques of resource data collection, analysis and valuation. History of landscape planning in Australia and overseas with reference to pioneering case studies. Projects include the use of maps, air photos and simple computer programs.

37.9206 Landscape Planning 2  
Prerequisite: 37.9105.

Classification of planning methods. Study of complex methods and techniques used in recent landscape planning models. Development of land use suitability models for recreation, residential, industry, commercial, grazing, agriculture, forestry and conservation. Projects include the use of remote sensing techniques and advanced computer programs.

Landscape Electives for Students of Architecture and Related Disciplines

The following landscape electives require attendance of two hours per week over a period of 14 weeks. They are offered subject to demand and availability of resources, consequently students are advised to contact the School before finalizing their program. Credit point values and prerequisites specifically refer to students of Architecture enrolled in courses 3275, 3280 or 3295.

37.100 Site Planning Elective  
2 credit points. Prerequisite: 52 credit points.

Not offered in 1989.

Recognition of natural processes and factors in site analysis. Opportunities and constraints with respect to potential development. Development of a logical approach to site planning.

37.300 Planting Design Elective  
2 credit points. Prerequisite: 104 credit points.

The selection and use of plant materials within the built environment with particular reference to visual and ecological considerations.
37.400 Urban Landscape Elective  
2 credit points. Prerequisite: 104 credit points.
Not offered in 1989.
The treatment of spaces between and upon buildings ‘Hard’ and 'soft' landscape treatments. Functional uses of open space within the built environment and the design of street furniture.

37.500 Recreation Planning Elective  
2 credit points. Prerequisite: 156 credit points.
Not offered in 1989.
Various recommended provisions for open space allocation for recreation are examined and classified in terms of contemporary needs. Specific requirements of a range of recreation facilities are studied in detail and successful Australian and overseas examples evaluated.

Subject Offered to Other Schools

37.224 Landscape Architecture  
Landscape and planting within the built environment with particular reference to functional, ecological and aesthetic considerations; the treatment of spaces between buildings and in road reservations; hard and soft landscape treatments; establishment and maintenance cost.

Geography

27.818 Australian Environment and Human Response  
S1 L2T2
Prerequisite: Nil. Excluded: 27.010, 27.030, 27.801, 27.295, 27.111.
Themes selected from the mechanisms of the physical environment with particular reference to Australia and the Sydney region. Landscape as an expression of dynamic response: land capability and land use problems, humans as agents of landscape change. Energy and Atmospheric Circulation over Australia: local weather patterns and weather extremes, human responses to fire, flood, and drought hazards. Development and Stability of Hillslopes: soil, vegetation and drainage relationships, problems of soil erosion. Coastal Ecosystems: problems of demand, risk and management in the coastal zone. Lectures are supplemented with tutorials, workshops, and field tutorials. Students are required to provide some materials for workshop exercises and to contribute to the cost of field tutorials.

Botany

43.202 Botany for Landscape Architects  
S1 L2T3
Prerequisite: Nil.
How green plants function. What is known about how plants grow. Specific topics include: what happens in a plant meristem, hormone interactions and growth, transport systems in plants, water uptake and use, mineral nutrition, the role of light and leaves in photosynthesis, control of flowering process, germination and senescence. Emphasis is on the interaction between plant structure and function.

Mines

25.5222 Geology for Landscape Architecture  
S1 L1
Prerequisite: Nil.
Minerals and rocks. Igneous, sedimentary and metamorphic rocks; their origin and their relationship with the landscape. Geological structures and their graphic representation. Interpretation of geological maps and sections.
Graduate Study

Faculty of Architecture Graduate Enrolment Procedures

All students enrolling in graduate courses should obtain a copy of the free booklet *Enrolment Procedures 1989* available from School Offices and the Admissions Office. This booklet provides detailed information on enrolment procedures and fees, enrolment timetables by faculty and course, enrolment in miscellaneous subjects, locations and hours of cashiers and late enrolment.

Higher Degrees – Research

Following the award of a first degree in Architecture, Building, Landscape Architecture or Town Planning of the University of New South Wales or other approved university, graduates may apply to register for study leading to the award of the degree of Master of Architecture, Master of Building, Master of Landscape Architecture, or Master of Town Planning. Facilities are also available in each school for research towards the degree of Doctor of Philosophy. For details concerning this degree see Conditions for the Award of Higher Degrees later in this handbook or write to the Dean.

Summary of the Conditions for the Award of a Masters Degree

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

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

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

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

In addition to the facilities available for the pursuit of higher degrees by research, formal courses are offered as follows:
1. Master of Science (Acoustics)
2. Master of Project Management
3. Master of Science (Industrial Design)
4. Master of the Built Environment (Building Conservation)
5. Master of Architectural Design
6. Master of Industrial Design
7. Master of Construction Management
8. Master of Landscape Planning
9. Graduate Diploma in Landscape Planning

Duration

Each course is programmed over two years of part-time study in the University, involving attendance on two or three evenings per week. Subjects in the Master of Project Management course are normally timetabled on two evenings and one afternoon per week.

Graduate School of the Built Environment

Graduate Studies in Acoustics, Building Conservation, Industrial Design and Urban Design

Head of School
Professor J.C. Haskell

The aim of the Graduate School is to provide, within the Faculty of Architecture, a centre to promote the inter-disciplinary study of the built environment through research, teaching, publications and expert advice to appropriate authorities, organizations and professions in Australia and Southeast Asia, at a high level of academic excellence, critical objectivity and perceptive innovation.

The School undertakes a range of activities within the area of acoustics, architectural history, building conservation, health facilities design, industrial design, urban design and continuing education.

Research

The School currently has active research units working under its control in most of the areas listed above. For more detailed information concerning current research and facilities, contact the Head of School.

Research Degrees

The School makes available to research students a resource facility covering a wide spectrum of relevant disciplines in which students can follow a largely self-determined program of study, research and practice.

The School tailors individual programs to student needs at both Masters and Doctoral levels. In doing so it is able to call on its own research units and on many resources from within every faculty of the University.

Research may be undertaken towards the award of Doctor of Philosophy (PhD), Master of Architecture (MArch) and Master of the Built Environment (MBEnv).

Eligibility for Enrolment

The school welcomes professional level graduates in any discipline whose further studies are to be in the area of the built environment and does not restrict its intake to graduates in architecture, building, town planning, landscape architecture or industrial design.

1120
Doctor of Philosophy

Doctor of Philosophy
PhD

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

1121
Doctor of Philosophy

Doctor of Philosophy
PhD

This degree provides for research work of a specialized and restricted nature. Students individually follow a self-determined program of study and research.

In addition to the general conditions governing the award of the degree of Doctor of Philosophy, the School offers an alternative study program to students already holding the degree of Master in an appropriate discipline.

Course Structure

The program is normally taken over four full-time sessions (two academic years). In special circumstances where the research project can be properly served and with the concurrence of the Academic Board, some of this time may be fulfilled on an equivalent part-time basis, but in no case will students spend less than two consecutive sessions full-time in the course.

The program consists of:
1. A compulsory core containing:
   (1) 39.301G New Development Studies 2 credit points
(2) 39.302Q Research Studies 2 credit points
(3) 39.303Q Directed Studies 3 credit points
(4) Preparation and structuring of a doctoral research topic

This part must normally be completed by the end of the first session of studies.

2. Electives selected from a wide range of relevant subjects offered by faculties throughout the University (12 credit points).

Elective studies commence at the beginning of the first session of studies and must normally be completed by the end of the second session of studies.

3. Supervised research of a doctoral research topic approved by the Higher Degree Committee of the Faculty of Architecture and the preparation of a thesis. This work can be undertaken only on satisfactory completion of Part 1.

Student progression is evaluated at the end of first session (preliminary evaluation) and at the end of second session (confirmation evaluation). The thesis examination and its procedures conform to the normal University examination practice with regard to doctoral theses.

2201
Master of Architecture

Master of Architecture
MArch

Graduates holding the degree of Bachelor of Architecture of the University of New South Wales or other approved university may apply to register for the degree of Master of Architecture by research. General conditions governing registration as a candidate for this degree are given later in this handbook.

2240
Master of the Built Environment

Master of the Built Environment
MBEnv

This degree provides for research work of an interdisciplinary nature relevant to the built environment. Graduates holding a minimum four year degree of Bachelor of the University of New South Wales or other approved university in any appropriate discipline may apply to register for the degree of Master of the Built Environment by research. General conditions governing registration for this degree are given later in this handbook.

8100
Master of Science (Acoustics) Course

Master of Science (Acoustics)
MSc(Acoustics)

This course provides for graduate study and research in several important aspects of acoustics, such as community noise control, noise control in industry and in buildings, auditorium design and physical acoustics. It is designed primarily for graduates in engineering, architecture, science or building who wish to specialize in acoustics and it is suitable for those who wish to find employment with noise control authorities, or in industry, to practise as consultants, to undertake research or to become part of a multi-disciplinary team in an architectural or engineering practice.

Admission Requirements

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

An applicant for registration for the degree course of Master of Science (Acoustics) shall have been admitted to the degree of Bachelor of Science (Architecture) or Bachelor of Science (Design Studies) at Honours level, Bachelor of Architecture, Bachelor of Building, Bachelor of Science at Honours level, or Bachelor of Engineering at the University of New South Wales, or an equivalent degree from another university or tertiary institution. In exceptional cases applicants may be registered as candidates for the degree if they submit evidence of such academic and professional attainment as may be approved by the Higher Degree Committee of the Faculty of Architecture.

Notwithstanding any other provisions of these conditions the Higher Degree Committee of the Faculty of Architecture may require an applicant to demonstrate fitness for registration by carrying out such work and sitting for such examinations as the Higher Degree Committee of the Faculty of Architecture may determine. Candidates with BSc(Eng) or BSc(DesStud) at Honours level, BArch or BBuild degrees are strongly advised to take refresher courses in mathematics and physics before entry to the course. Candidates with BSc at Honours level or BE degrees who wish to specialize in noise control in buildings and auditorium acoustics are also strongly advised to study an introductory construction subject.

Course Structure

The course may be taken over two full-time or four part-time sessions, and a student must obtain 34 credit points to graduate. 15 credit points must be obtained by satisfactorily completing a graduate project in an approved topic. 8 credit points must be obtained by completing four compulsory core subjects and the remaining 11 credit points are obtained by the satisfactory completion of formal subjects which may be chosen to emphasize a particular field of acoustics. The subjects offered in any session will depend on student numbers and interests.

Course Subjects

<table>
<thead>
<tr>
<th>Session 1 – Core</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.927G Acoustic Theory</td>
<td>2</td>
</tr>
<tr>
<td>39.651G Mechanical Shock and Vibration</td>
<td>2</td>
</tr>
<tr>
<td>39.901G Acoustic Measuring Systems and Electroacoustics</td>
<td>2</td>
</tr>
<tr>
<td>39.993G The Ear, Hearing and Hearing Conservation</td>
<td>2</td>
</tr>
</tbody>
</table>
Most of the work is done in the School, but approved practical experience forms an important component of the course. The program is so arranged that eminent visitors as well as guest lecturers may participate.

Normally, subjects are timetabled on one afternoon and evening, and one other evening each week. In addition to timetabled commitments, students may occasionally be required to attend for site visits and building inspections.

The requirements for this course include a period of at least eight weeks of approved practical experience.

### Course Subject Areas

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Total Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contextual Studies</td>
<td>14</td>
</tr>
<tr>
<td>Architectural History</td>
<td>42</td>
</tr>
<tr>
<td>Conservation Management</td>
<td>42</td>
</tr>
<tr>
<td>Analysis and Documentation</td>
<td>84</td>
</tr>
<tr>
<td>Conservation Technology A</td>
<td>210</td>
</tr>
<tr>
<td>Graduate Project</td>
<td>112</td>
</tr>
<tr>
<td></td>
<td>504</td>
</tr>
<tr>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

### Typical Pattern of Full-time Study

#### Session 1
- 39.101G Contextual Studies: 14 hours, 1 credit
- 39.102G Architectural History: 42 hours, 3 credits
- 39.104G Analysis and Documentation A: 56 hours, 4 credits
- 39.105G Analysis and Documentation B: 28 hours, 2 credits
- 39.106G Conservation Technology A: 28 hours, 2 credits
- 39.108G Conservation Technology C: 56 hours, 4 credits
- 39.110G Graduate Project: 56 hours

#### Session 2
- 39.105G Analysis and Documentation B: 28 hours, 2 credits
- 39.107G Conservation Technology B: 70 hours, 5 credits
- 39.109G Conservation Technology D: 56 hours, 4 credits
- 39.110G Graduate Project: 56 hours

**Completion:** 252 hours, 14 credits

### Typical Pattern of Part-time Study

#### Session 1
- 39.101G Contextual Studies: 14 hours, 1 credit
- 39.102G Architectural History: 42 hours, 3 credits
- 39.104G Analysis and Documentation A: 56 hours, 4 credits
- 39.106G Conservation Technology A: 28 hours, 2 credits

**Total:** 140 hours, 10 credits

#### Session 2
- 39.105G Analysis and Documentation B: 28 hours, 2 credits
- 39.107G Conservation Technology B: 70 hours, 5 credits
- 39.110G Graduate Project: 56 hours

**Total:** 128 hours, 7 credits
8145
Master of Industrial Design Course

Master of Industrial Design
MID

8146
Master of Science (Industrial Design) Course

Master of Science (Industrial Design)
MSc(IndDes)

These courses of graduate study have a common core of subjects in the major areas of industrial design. They are designed for graduates in industrial and environmental design, architecture, engineering, and marketing and business studies who wish to make careers in industrial design or to be involved in industrial design as a part of their career activity, eg, mechanical engineering with industrial design.

The MID degree course is intended for holders of four year industrial design degrees who wish to specialize and develop expertise in particular areas of industrial design. In addition to the common core of subjects, MID degree students are also required to submit a major graduate project, a design theory report and have a greater choice of electives related to their field of specialization.

The MSc(IndDes) degree course is intended for graduates from design fields related to industrial design, such as architecture or engineering, or for graduates from non-design areas, such as marketing, who have satisfactorily completed preparatory studies. The course is designed to adapt and apply the students’ existing design knowledge and experience to the methodology and practice of industrial design. The project work is less specialized and covers a broad range of industrial design problems. The students are required to submit a minor graduate project. There are additional compulsory subjects in this course, with a more restricted range of electives, closely related to industrial design.

Admission Requirements

The conditions governing registration as a candidate for the MSc(IndDes) degree course are given later in this handbook: see below under Conditions for the Award of Higher Degrees. In summary, admission is open to applicants who have been admitted to an appropriate degree of at least four years’ full-time duration, or its equivalent. For the MID degree course, admission is restricted to applicants who have been admitted to a degree with a major in industrial design of at least four years’ full-time duration, or its equivalent. Candidates who have completed part or all of the requirements for the award of the degree of the MSc(IndDes) course may elect to apply for admission to the MID degree course, subject to the recommendation of the School and the approval of the Higher Degree Committee of the Faculty of Architecture.

In certain cases, particularly for applicants from non-design undergraduate courses, it is necessary to complete a qualifying program of preparatory units in industrial design, as prescribed by the Higher Degree Committee of the Faculty. These units are selected from appropriate undergraduate courses. The Committee’s decision is influenced by the academic and professional experience of each applicant.

Course Structure

The minimum duration of both courses is two sessions of full-time study or four sessions of part-time study. The availability of the full-time and part-time programs of study depends upon student demand the University's resources at that time.

The MID degree course comprises 36 credit points. The MSc(IndDes) degree course comprises 36-38 credit points. One credit point is normally equivalent to one hour per week for one session. Full-time study normally requires an attendance of approximately 18 hours per week, while part-time study normally requires approximately 9 hours per week for the duration of the course.

The project work for both degree courses, part and full-time, is run simultaneously and is staffed according to the requirements of each project.

Most of the work is undertaken within the School, but industrial visits and experience forms an important component of the course.

The program is so arranged that eminent visitors as well as guest lecturers and designers may participate.

To avoid duplication of classes for full-time and part-time students, subjects are timetabled wherever possible on afternoons and evenings. In addition to timetabled commitments, the studios and laboratories are available during normal University hours for industrial design project work. Occasionally students are required to attend professional and industrial visits and lectures at other institutions.

The requirements for the course include an equivalent period of at least four weeks of approved professional or industrial experience. Part-time students with approved employment are exempt from this requirement.

Course Subjects

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
<th>Usual Sessions</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.501G</td>
<td>Industrial Design Studies</td>
<td>2</td>
<td>S1 S2</td>
</tr>
<tr>
<td>39.511G</td>
<td>Ergonomics for Industrial Designers</td>
<td>2</td>
<td>S2</td>
</tr>
<tr>
<td>39.521G</td>
<td>Business Studies for Industrial Designers</td>
<td>2</td>
<td>S2</td>
</tr>
<tr>
<td>39.531G</td>
<td>Manufacturing Technology</td>
<td>2</td>
<td>S1</td>
</tr>
<tr>
<td>39.541G</td>
<td>Industrial Experience*</td>
<td>2</td>
<td>S1</td>
</tr>
</tbody>
</table>
### Typical Full-time Study Patterns for MID and MSc(IndDes)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Common Core</strong></td>
<td></td>
</tr>
<tr>
<td>39.501G Industrial Design Studies</td>
<td>1</td>
</tr>
<tr>
<td>39.511G Ergonomics for Industrial Designers</td>
<td>2</td>
</tr>
<tr>
<td>39.521G Business Studies for Industrial Designers</td>
<td>2</td>
</tr>
<tr>
<td>39.531G Manufacturing Technology</td>
<td>2</td>
</tr>
<tr>
<td>39.541G Industrial Experience*</td>
<td></td>
</tr>
<tr>
<td><strong>MID only</strong></td>
<td></td>
</tr>
<tr>
<td>39.502G Graduate Project (MID)</td>
<td>3**</td>
</tr>
<tr>
<td>39.512G Design Theory</td>
<td>1</td>
</tr>
<tr>
<td>39.522G Industrial Design</td>
<td>4</td>
</tr>
<tr>
<td>Approved Electives**</td>
<td></td>
</tr>
<tr>
<td><strong>MSc(IndDes) only</strong></td>
<td></td>
</tr>
<tr>
<td>39.503G Design Media and Communication</td>
<td>2</td>
</tr>
<tr>
<td>39.513G Visual Thinking***</td>
<td>2</td>
</tr>
<tr>
<td>39.523G Industrial Design A</td>
<td>6</td>
</tr>
<tr>
<td>39.533G Industrial Design B</td>
<td>2</td>
</tr>
<tr>
<td>39.543G Graduate Project (MSc(IndDes))</td>
<td>8**</td>
</tr>
<tr>
<td>Approved Electives**</td>
<td></td>
</tr>
<tr>
<td>Total hours per week MSc(IndDes)</td>
<td>27</td>
</tr>
</tbody>
</table>

### Typical Part-time Study Patterns for MID and MSc(IndDes)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Common Core</strong></td>
<td></td>
</tr>
<tr>
<td>39.501G Industrial Design Studies</td>
<td>1</td>
</tr>
<tr>
<td>39.511G Ergonomics for Industrial Designers</td>
<td>2</td>
</tr>
<tr>
<td>39.531G Manufacturing Technology</td>
<td>2</td>
</tr>
<tr>
<td>39.541G Industrial Experience*</td>
<td></td>
</tr>
<tr>
<td><strong>MID only</strong></td>
<td></td>
</tr>
<tr>
<td>39.502G Graduate Project (MID)</td>
<td>3**</td>
</tr>
<tr>
<td>39.512G Design Theory</td>
<td>2</td>
</tr>
<tr>
<td>39.522G Industrial Design</td>
<td>4</td>
</tr>
<tr>
<td>Approved Electives**</td>
<td></td>
</tr>
<tr>
<td>Total hours per week MID</td>
<td>7</td>
</tr>
<tr>
<td>39.502G Graduate Project (MID)</td>
<td>3**</td>
</tr>
<tr>
<td>39.512G Design Theory</td>
<td>2</td>
</tr>
<tr>
<td>Approved Electives**</td>
<td></td>
</tr>
<tr>
<td>Total hours per week MID</td>
<td>10</td>
</tr>
<tr>
<td><strong>MSc(IndDes) only</strong></td>
<td></td>
</tr>
<tr>
<td>39.503G Design Media and Communication</td>
<td>2</td>
</tr>
<tr>
<td>39.513G Visual Thinking***</td>
<td>2</td>
</tr>
<tr>
<td>39.523G Industrial Design A</td>
<td>6</td>
</tr>
<tr>
<td>Approved Electives**</td>
<td></td>
</tr>
<tr>
<td>Total hours per week MSc(IndDes)</td>
<td>8</td>
</tr>
<tr>
<td><strong>MSc(IndDes) only</strong></td>
<td></td>
</tr>
<tr>
<td>39.533G Industrial Design B</td>
<td>2</td>
</tr>
<tr>
<td>39.543G Graduate Project MSc(IndDes)</td>
<td>8**</td>
</tr>
<tr>
<td>Approved Electives**</td>
<td></td>
</tr>
<tr>
<td>Total hours per week MSc(IndDes)</td>
<td>9</td>
</tr>
</tbody>
</table>

* A four week period during the recess. Part-time students in approved employment are normally exempt.
** Nominal hours.
*** Graduates of visually oriented courses, e.g., architecture, are normally exempt.
School of Architecture

The School of Architecture offers facilities for research and welcomes enquiries from students who wish to pursue programs for the degrees of Master of Architecture (MArch) or Doctor of Philosophy (PhD). Prospective students should consult the Head of School to discuss their research interests prior to making a formal application.

The School also offers a course leading to the award of Master of Architectural Design (MArchDes). Details of the entrance requirements and course content are given later in this handbook.

1130
Doctor of Philosophy

Doctor of Philosophy
PhD

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

2200
Master of Architecture

Master of Architecture
MArch

This degree is available to part-time and external candidates in addition to full-time candidates. It requires the submission of a thesis embodying the results of an original investigation or design.

8140
Master of Architectural Design Course

Master of Architectural Design
MArchDes

The course is centred on the essential architectural activity, the conceptual design-synthesis of buildings to mastery accomplishment.

It aims at an embracing and thorough synthesis of all relevant influences arising from the inanimate (physical) and animate (human) context into which the building is to be placed. These subjects establish the nature of the course as a whole: they involve theory, research and studio practice crystallized into a project which is assessed at the conclusion of each semester.

The central project is supported by elective subjects.

Admission Requirements

The general conditions governing registration as a candidate for the degree of Master of Architectural Design are given later in this handbook but the attention of intending applicants is directed to the following specific requirements:

1. The standard of admission is the BArch degree at Honours level of the University of New South Wales or any other approved university followed by at least one year of professional practice.

2. Graduates with a BArch degree at Pass level may be admitted only on the recommendation of the Head of School and the confirmation of the Faculty.

3. In special circumstances a person may be permitted to register as a candidate for the degree if evidence is submitted of such academic and professional attainments as may be approved by the Faculty on the recommendation of its Higher Degree Committee.

4. Admission is selective for the places available based on the academic record of applicants and the quality and extent of their professional practice.

Course Structure

The course is structured on a two-semester credit-point system. It is offered in two full-time semesters – (each one of a duration of 14 weeks), to be taken either in a single academic year or in two consecutive academic years – the first semester's work in the first session of Year 1, the second semester's work in the second session of Year 2.

Full-time study is the normal pattern for this type of course; however, in particular circumstances the first full-time semester may be replaced by two part-time semesters with the approval of the Head of School.

Each semester’s work is equivalent to a minimum of 15 credit points totalling to a minimum of 30 credits for the award of the degree. Each credit point is approximately equivalent to 1 hour/week/semester attendance of the course.

Each student’s program is to consist of the compulsory core subject equivalent to 67 per cent of the total credit points in the course, and of a selection of elective subjects equivalent to the other 33 per cent.

Course Program

<table>
<thead>
<tr>
<th>Course Award</th>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural Synthesis 1 and 2 (core)</td>
<td>9 11</td>
</tr>
<tr>
<td>Electives</td>
<td>6 4</td>
</tr>
<tr>
<td>Course Award</td>
<td>15 15</td>
</tr>
<tr>
<td>Core Subjects</td>
<td>30</td>
</tr>
</tbody>
</table>

Credit points

<table>
<thead>
<tr>
<th>Credit points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural Synthesis 1</td>
</tr>
<tr>
<td>Architectural Synthesis 2</td>
</tr>
<tr>
<td>Architectural Theory</td>
</tr>
<tr>
<td>Ideologies of Modern Architecture</td>
</tr>
<tr>
<td>Architectural Impact Studies</td>
</tr>
<tr>
<td>Cultural Influences in Civic Design</td>
</tr>
<tr>
<td>Structural and Architectural Space</td>
</tr>
<tr>
<td>Design for Industrialized Buildings</td>
</tr>
<tr>
<td>Resources for Buildings</td>
</tr>
</tbody>
</table>
Subject to approval of the appropriate Head of School and the Head of School Architecture, students may enrol in other graduate subjects offered by the Faculty: subject to the same conditions, students may also enrol in undergraduate subjects offered in the University but only to the maximum contributing total of 4 credit units calculated at half their value as an undergraduate subject.

2206
Master of Science (by Research)

Master of Science
MSc

The conditions governing the award of the degree of Master of Science by research are set out in the next section.

School of Building

The School of Building has an active program of research and welcomes enquiries from students who wish to pursue programs for the degrees of Master of Building (MBuild) or Doctor of Philosophy (PhD). Graduates enrolled in these courses need not necessarily be building graduates. Prospective students should consult the Head of School to discuss their research interests prior to making a formal application.

The School also offers each year a series of short non-credit midcareer courses which are designed to provide practical on-going education for experienced members of the building industry.

For further information, contact Dr. J. Hutcheson, Continuing Education Co-ordinator in the School of Building.

1140
Doctor of Philosophy

Doctor of Philosophy
PhD

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

2210
Master of Building

Master of Building
MBuild

This degree is available to part-time and external candidates in addition to full-time students. It requires the submission of a thesis embodying the results of an original investigation or design relative to building.

8116
Master of Project Management Course

Master of Project Management
MProjMgt

Course Co-ordinator
Mr. Graham Levido

This four-session course has been designed to provide opportunities for advanced study in project management and building economics. It allows for study in two interrelated areas:

1. Planning and management aspects of a design or construction organization, including programming, evaluation, costing, performance feedback, feasibility and management of properties.

2. Operations and control aspects of a design or construction organization, concentrating on estimating and cost analysis, contract or design administration and building economics.

The course aims at attracting the qualified practitioner who wishes to widen his/her knowledge and understanding of construction planning, operation and economics related to project management.

Admission Requirements

The general conditions governing registration as a candidate for the degree Master of Project Management are given later in this handbook but the attention of intending applicants is directed to the following specific requirements:

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

2. Graduates with a Bachelor of Architecture or Engineering or other four year degree, who have appropriate experience in building may be admitted to the course depending on the individual case.

3. Eligible applicants may be required to complete a program of preparatory or concurrent study set out by the Head of the School of Building whose decision will be influenced by the education and experience of each applicant.

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

Course Structure

The Master of Project Management is a formal four session part time degree course comprising 12 subjects. The subject program comprises studies in management, computations, building economics, operations planning, contract law and documentation. A student must successfully complete all the subjects in one session before progressing to the next session. Students with a grade average of Credit or better in their course may choose to write a Project Report to qualify for the degree with honours.

Course Program

Subjects are offered on a four-session cycle. Subjects are normally timetabled on two evenings and one afternoon per
Except in exceptional circumstances, a student is required to be concurrently enrolled in all subjects in a given session to allow for syllabus integration between subjects.

Session One
35.101G Economics and Finance
35.102G Management Framework
35.103G Computers Management

Session Two
35.201G Managerial Economics
35.203G Project Planning and Control
35.204G Personnel Management Techniques

Session Three
35.301G Project Feasibility
35.302G Building Contracts
35.303G Management of the Design and Construction Process

Session Four
35.401G Management of Buildings
35.402G Project Applications
35.403G Process Applications

Session Five and Six
35.100G Project Report (full-time or part-time)

8125
Master of Construction Management

Master of Construction Management
MConstMgt

Course Co-ordinator
Mr Thomas E. Uher

Construction Management comprises all the modern management methodologies directed at the control of time, cost and quality in the design and construction of buildings and other structures.

This two-session full-time full-fee course has been designed to provide opportunities for advanced study in construction technology, project management and building economics. The course aims at improving proficiency of qualified practitioners in the construction industry to meet present and future challenges.

Admission Requirements and Fees
1. Applicants must hold degrees acceptable to the University of New South Wales in either building, civil engineering, architecture, quantity surveying or equivalent and must have appropriate industrial experience.
2. Applicants may proceed directly into the course, or be required to complete prerequisite or co-requisite programs of reading or study, with assessed assignments.
3. Applicants from non-English speaking countries must supply a certified statement of results in the Test of English as a Foreign Language (TOEFL) or another equivalent recognised test.
4. The tuition fee for 1989 is $A11,000.

Course Structure
The Master of Construction Management course is a formal one year full-time full-fee degree course comprising two semesters of academic study, up to 7 weeks of industry training and the Research Report. A student must successfully complete all the subjects in the first semester before progressing to the second semester.

Course Program
Session One
35.151G Construction Methods and Techniques
35.152G Management of Construction Plant
35.153G Management of Construction
35.154G Economics in Construction
35.155G Computers in Construction Management
35.156G Advances in Building Materials

Session Two
35.251G International Construction Practice
35.252G Building Services
35.253G Construction Planning and Control
35.255G Contracts Management and Law
35.256G Cost Planning and Analysis
35.257G Quantitative Methods in Management

Other Subjects
35.150G Industry Training
35.250G Research Report

School of Landscape Architecture

The School of Landscape Architecture has an active program of research and advanced study and encourages enquiries from students who wish to pursue graduate education. The degrees Doctor of Philosophy (PhD) and Master of Landscape Architecture are available for those wishing to engage in research. The degrees Master of Landscape Planning (MLP) and Graduate Diploma in Landscape Planning (GradDiplLP) are available as course programs. Prospective students should consult the Head of School to discuss their research interests and educational objectives prior to making a formal application.

1160
Doctor of Philosophy

Doctor of Philosophy
PhD

This is a research degree requiring an original and significant contribution to knowledge in an approved subject.
Master of Landscape Architecture
MLArch
This degree is available to part-time and external candidates in addition to full-time candidates. It requires the submission of a thesis embodying the results of an original investigation or design.

Master of Landscape Planning
MLP
The course offers advanced education and study opportunities for graduate landscape architects, town planners, surveyors, geographers, engineers, and architects in landscape planning.

The intent is to offer students the opportunity to develop an understanding of the complex relationships between natural environments and expanding human population and to acquire the skills needed for planning and management of emerging landscapes. Principles and concepts from the natural and social sciences along with techniques and methods of geographic information systems, remote sensing and other technologies are emphasized.

Admission Requirements
A four year degree of appropriate standing in landscape architecture, architecture, town planning, surveying, geography or other approved degree in a relevant area of land management or resource and environmental science or a Graduate Diploma in Landscape Planning is required. A qualifying or concurrent program may be required in some cases.

Course Structure
The course will be offered as a full-time program that can be completed in three sessions. To accommodate the practising professionals in the Sydney metropolitan area, the course can also be taken part time and would normally be completed in six sessions or less.

The course is built upon a core of six required subjects totalling 18 credit points. As far as possible, these core subjects are offered between the times of 2 pm and 9 pm on Monday through Friday to accommodate the working professional. Beyond these core requirements students may select from two options. In either case the course requires the completion of 36 credit points. Those students wishing to engage in research would select the Landscape Research Project for 18 credit points. Those not wishing to do research would enrol in 9 more credits of elective subjects and complete a Landscape Project to 9 credit points. Topics for Landscape Research Projects and Landscape Projects will be determined in consultation with academic staff of the school.

Graduate Diploma in Landscape Planning
GradDiplLP
This course is designed for people who wish to obtain formal qualifications in Landscape Planning through a program in which the emphasis is on completion of subjects. There is no research or independent project requirement.

The intent is as described above for the Master of Landscape Planning course but the program is offered in a more structured setting.

Admission Requirements
A three year degree from an approved university and/or qualifications deemed appropriate by the Higher Degree Committee of the Faculty of Architecture is required.

Course Structure
The course is offered as a one year full time, or two year part time program.

Students are required to complete a program totalling at least 30 credit points. The required core subjects comprise 18 of these credit points and the remaining are from electives. One third of the elective credits may be from approved undergraduate subjects. After successful completion of the course the student may elect to transfer into the Master of Landscape Planning course. This would require the completion of two additional core courses and either a Landscape Planning Project or a Landscape Research Project.
Electives
27.644G Computer Mapping and Data Display 3
39.106G Conservation Technology A 3
39.101G Contextual Studies 3
27.672G Geographic Information Systems 3
29.604G Land Information Systems 3
37.161G Land Systems and Management 2
27.043G Remote Sensing Applications 3

School of Town Planning

1150
Doctor of Philosophy

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

2230
Master of Town Planning (by Research)

Master of Town Planning
MTP
The Master of Town Planning degree is a research degree awarded on the basis of a thesis embodying the results of an original investigation. The research is to be undertaken over four sessions, but the period may be reduced in certain circumstances. The conditions governing the award of the degree are set out later in this Handbook.

Professional Recognition

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

Course Work

Candidates with a primary degree in a subject other than that of Town Planning may be required to complete an additional program of study. The actual program is determined by the Higher Degree Committee of the Faculty of Architecture on the recommendations of the Head of the School of Town Planning. Candidates should contact the Head of the School about the guidelines used in formulating such a program.
Identification of Subjects by Number

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

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

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

1. The authority offering the subject, normally a School of the University, is indicated by the number before the decimal point.
2. Each subject number is unique and is not used for more than one subject title.
3. Subject numbers may not be re-used with a new subject title within ten years of the prior use.
4. Graduate subjects are indicated by a suffix 'G' to a number with three digits after the decimal point. In other subjects three or four digits are used after the decimal point.

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

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

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

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

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

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

Information Key
The following is the key to the information which may be supplied about each subject:
S1 Session 1, S2 Session 2
F Session 1 plus Session 2, ie full year
S1 or S2 Session 1 or Session 2, ie choice of either session
SS single session, but which session taught is not known at time of publication
CCH class contact hours
L Lecture, followed by hours per week
T Laboratory/Tutorial, followed by hours per week
hpw hours per week
C Credit point value
CR Credit
DN Distinction
HD High Distinction
<table>
<thead>
<tr>
<th>School, Department etc</th>
<th>Faculty</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Subjects also offered for courses in this handbook&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 School of Physics</td>
<td>Science</td>
<td></td>
</tr>
<tr>
<td>2 School of Chemistry</td>
<td>Science</td>
<td></td>
</tr>
<tr>
<td>3 School of Chemical Engineering and Industrial Chemistry (New Course)</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>4 School of Materials Science and Engineering</td>
<td>Applied Science</td>
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</tr>
<tr>
<td>5 School of Mechanical and Industrial Engineering</td>
<td>Engineering</td>
<td></td>
</tr>
<tr>
<td>6 School of Electrical Engineering and Computer Science</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>7 School of Mines (Mineral Processing and Extractive Metallurgy and Mining Engineering)</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>8 School of Civil Engineering</td>
<td>Engineering</td>
<td></td>
</tr>
<tr>
<td>9 School of Fibre Science and Technology (Wool and Animal Science)</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>10 School of Mathematics</td>
<td>Science</td>
<td></td>
</tr>
<tr>
<td>11 School of Architecture</td>
<td>Architecture</td>
<td>63</td>
</tr>
<tr>
<td>12 School of Psychology</td>
<td>Biological and Behavioural Sciences</td>
<td></td>
</tr>
<tr>
<td>13 School of Fibre Science and Technology (Textile Technology)</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>14 School of Accounting</td>
<td>Commerce &amp; Economics</td>
<td></td>
</tr>
<tr>
<td>15 School of Economics</td>
<td>Commerce &amp; Economics</td>
<td></td>
</tr>
<tr>
<td>16 School of Health Administration</td>
<td>Professional Studies</td>
<td></td>
</tr>
<tr>
<td>17 Faculty of Biological and Behavioural Sciences</td>
<td>Engineering</td>
<td></td>
</tr>
<tr>
<td>18 School of Mechanical and Industrial Engineering (Industrial Engineering)</td>
<td>Commerce &amp; Economics</td>
<td></td>
</tr>
<tr>
<td>19 School of Information Systems</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>20 Centre for Petroleum Engineering Studies</td>
<td>Architecture</td>
<td>33</td>
</tr>
<tr>
<td>21 Department of Industrial Arts</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>22 School of Mines (Applied Geology)</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>23 Centre for Liberal and General Studies</td>
<td>Liberal and General Studies</td>
<td></td>
</tr>
<tr>
<td>24 School of Geography</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>25 School of Marketing</td>
<td>Commerce &amp; Economics</td>
<td></td>
</tr>
<tr>
<td>26 School of Surveying</td>
<td>Engineering</td>
<td></td>
</tr>
<tr>
<td>27 School of Industrial Relations and Organizational Behaviour</td>
<td>Commerce &amp; Economics</td>
<td></td>
</tr>
<tr>
<td>28 School of Optometry</td>
<td>Science</td>
<td></td>
</tr>
<tr>
<td>29 Centre for Biomedical Engineering</td>
<td>Engineering</td>
<td></td>
</tr>
<tr>
<td>30 Faculty of Arts</td>
<td>Arts</td>
<td></td>
</tr>
<tr>
<td>31 School of Building Architecture</td>
<td>Architecture</td>
<td>63</td>
</tr>
<tr>
<td>32 School of Town Planning Architecture</td>
<td>Architecture</td>
<td>65</td>
</tr>
<tr>
<td>33 School of Landscape Architecture</td>
<td>Architecture</td>
<td>66</td>
</tr>
<tr>
<td>34 School of Applied Bioscience (Food Science &amp; Technology)</td>
<td>Applied Science</td>
<td></td>
</tr>
<tr>
<td>35 Graduate School of the Built Environment</td>
<td>Architecture</td>
<td>66</td>
</tr>
<tr>
<td>36 Academic Board</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Architecture

11.901G Architectural Synthesis 1 C9

11.902G Architectural Synthesis 2 C11

Theory, research and studio practice, in the form of graduate projects, applied to general architectural themes of high priority in the contemporary context. After thorough theoretical foundation and research analysis the theme is adapted to a specific and concrete situation to achieve an architectural synthesis of all relevant influences arising from the physical and human context.

11.930G Architectural Theory C2

A general and theoretical approach to synthesis in art and architecture considering sensible and intelligible influences in the context of history and of the present day.

11.931G Ideologies of Modern Architecture C2

A critical and analytical review of the ideologies affecting the developments of and finding expression in the various phases of modern architecture from its beginnings to our present day.

11.932G Architectural Impact Studies C2

Examination of a number of selected buildings in the historical and in the contemporary milieu regarding their impact upon the animate and inanimate context of which they become an organic part. Cultural context: purpose and meaning of the building, its mode of expression, and effect upon the cultural existing pattern. Communication context: the effect of the building upon communication and exchange of experience and goods. Urban context: character, style, shape, proportion, material, colour of the building and its effect upon the urban scene. Microclimatic context: the effect of the building upon sunshade patterns, wind, heat, noise, air, etc. Resource context: the effect of the building upon the material, manpower, energy resources of the community and its overall economic effect.

11.933G Cultural Influences In Civic Design C2

An integrated examination of spiritual, mental (psychological, social, political, legislative, administrative) technological, economic, geographic and climatic influences affecting the character, grouping and relationships of buildings on a civic scale. Case studies in the historical and in the contemporary context.

11.934G Structure and Architectural Space C2

The qualitative role of structural systems in the determination of architectural mass and space. The structure affecting architectural unity, rhythm, variation, etc. The influence of loading patterns and material properties on structural shapes. Structural exhibitionism. Morphological studies of structural systems in nature. The geometrical order of structures. Studies of structural systems in historical and contemporary context with a special emphasis on their effect on architectural space. The design of structural systems for spatial articulation.

11.935G Design for Industrialized Building C2

Methods of industrialization in the field of building, considered from the general and simple to the specific and complex. Equipment and capital investment needed for equipment, problems of economical return. Standardization and flexibility. Component design in homogeneous and heterogeneous materials for simple and complex applications. Design principles for industrialization. Psychological aspects of acceptance: repetition, monotony and rigidity compared to variation, rhythm and flexibility.

11.936G Resources for Buildings C2

Sources of information on material, technological manpower and energy resources for building on a regional, national and global scale. Assessment of resources of a given regional and national economy. Infrastructure. Pattern of change and future forecasts. The energy-equivalents of processed building materials, of placed building components, of servicing methods. The energy equivalence and prime cost. Recycling of building components. Energy and resource conservation on a short and long-term basis. The problems of energy and conservation and resource recovery in a given system.

Building

Master of Project Management

35.100G Project Report

Students with a grade average of Credit or better in their course work may choose to write a Project Report to qualify for the degree with honours. This will require a specialized individual study taken under staff supervision, with the objective of allowing the student to expand knowledge in some aspect of building management.

The Project Report may be taken full-time over one session or part-time over two sessions following the satisfactory completion of all course work subjects. As part of the examination of the Project Report, students will be required to make an oral presentation and defence of the subject matter covered in their report.

35.101G Economics and Finance S1 L2 T1

Economic modelling; a model of the Australian economy; economic targets and instruments; fiscal and monetary policies; the structure of the building industry; productivity and competition; land use theory; the structure of the financial market; sources of finance; costs of finance. Systems for effective management: types of systems and their characteristics. Communication and Information systems. The changing environment and practice of management.

35.102G The Management Framework S1 L2 T1

Definition of management, its functions, authority and responsibility; the manager as administrator, managerial and social scientist, entrepreneur and psychologist. The manager and ethics. Scientific management: theory of organisation and management; the human relations approach. Organisational effectiveness: objectives, strategies, policies and measures of
performance. The functions of management: planning, organising and control. The decision making process — decision theory, decision trees.

35.103G Computers In Management S1 L2 T1
The Nature of Information: qualitative v quantitative; numbers v text v graphics; precise v indicative. Useful application packages: spreadsheet programs; data base systems; word processing; construction scheduling; finance control. Computer graphics: operating systems; languages, such as basic; data communications and networks. Computer system acquisition: hardware, maintenance, environment, software, ongoing support, hardware and software maintenance.

35.201G Financial Analysis S2 L4
Topics included are: discounted cash flow technique; time series and forecasting distributions and probabilities; portfolio management theories.

35.203G Project Planning and Control Techniques S2 L2 T1
Operations analysis — operation research techniques; concept of a model; optimization. Critical path method — arrow and precedence diagrams; critical paths and floats; project control time-cost trade offs; basic overlapping networks; resource allocation and levelling. Review of other planning techniques — linear programming; work study; line of balance; multi-activity charting; PERT. Survey of computerised planning systems. Value engineering and its applications.

35.204G Personnel Management Techniques S2 L2 T1
Australian labour market, recruitment and remuneration and training. Interpersonnel relationships in the work place, motivation and negotiation, group behaviour and individual behaviour. Industrial relations in Australia with particular emphasis on the building industry. Statutory responsibilities of employing labour (safety, welfare, superannuation, awards, equal opportunity, etc.).

35.301G Project Feasibility S1 L2 T1
Design feasibility: feasibility studies; cost planning practice; economics of services in building; maintenance methods and costs. Land economies: land resources; market and location of urban land uses; spatial and urban growth; property and investment markets; economics of development; investment appraisal; environmental impact studies.

35.302G Building Contracts S1 L2 T1
Acts, regulations, codes and ordinances; selection and preparation of contract documents for management, design and construction of building projects; legal and insurance aspects of alternative forms of contract; procedural and management aspects of alternative forms of contract; head contracts and subcontracts; contract claims and disputes; international contracting.

35.303G Management of the Design and Construction Process S1 L2 T1
Organisation of projects; facility procurement options; management of the design process; briefs — clients and consultants; Cost management of fundamentals; project team building and motivation; application of value management; management of the design and construction overlap; Legal aspects of project management; project control systems.

35.401G Management of Buildings S2 L2 T1
Maintenance and obsolescence; economics of refurbishment; marketing; tenancy management; building control and security systems; management of commercial, retail, industrial and large scale residential complexes; legal aspects of tenancy management; energy conservation; taxation law and implications.

35.402G Project Applications S2 L2 T1
Introduction to case studies; the structure, purpose and value of case studies. Detailed analysis of each phase of the project case study: economic planning and feasibility; design, design management buildability; construction, program, processes, cost, personnel management. Staff presentation of case studies. Tutorial sessions. Presentation of student case studies.

This subject relies on the involvement of major construction organisations who are prepared to permit the detailed analysis of past projects. A significant potential benefit for participating organisations in providing a thorough, structured review of their project.

It is proposed that company involvement should extend to senior staff being involved in the critique and assessment process.

35.403G Process Applications S2 L2 T1
Topics vary from year to year to cover main industry-wide issues. They could include: industrial relations (a specific issue); superannuation; labour training, apprenticeship; safety; the use of prefabricates; formwork sophistication; project communication; contractual trends; structure of the materials supply sector.

Master of Construction Management

35.150G Industry Training
Students will be based on a project for a period and be required to attend inspections of other major construction projects, demonstrations of plant and equipment, and short courses on specific building materials and construction systems.

35.151G Construction Methods and Techniques S1 L2 T1
Appropriate selection and use of current techniques and systems in all construction phases.

35.152G Management of Construction Plant S1 L2 T1
Selection, control and optimisation of equipment and plant operations.

35.153G Management of Construction S1 L2 T1
Organisation of projects from design to commissioning; time and value management; team building and motivation.

35.154G Economics In Construction S1 L2 T1
Economics of the construction industry; its inter-relationship with national and trans-national economics.
35.155G Computers in Construction Management
Information systems, communication networks and modelling techniques in construction management from micro computer to main frame.

35.156G Advances in Building Materials
Recent advances in high performance materials; better application of traditional ones.

35.250G Research Report
A specialised individual research study, under staff supervision, into an approved aspect of construction management or a related topic.

35.251G International Construction Practice
A comparison of construction practices in various nations. The impact of local economic, labour and technical parameters on construction management.

35.252G Building Services
The design, installation and coordination of building services: hydraulic, electrical, air conditioning, communication and transportation.

35.253G Construction Planning and Control
Programming, scheduling and control systems, both manual and computerised.

35.255G Contracts Management and Law
Selection of contract form; preparation of documents; procedures, disputes and claims; arbitration; legal aspects; risk and insurance.

35.256G Cost Planning and Analysis
Feasibility studies, cost planning, value analysis and value engineering.

35.257G Quantitative Methods in Management
Statistical analysis and systems modelling methods in construction management.

Town 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, sewerage treatment and disposal, and drainage. Local supply of electricity, gas, telephone, and other services.

36.923G Land and Housing Economics

36.924G Urban Sociology
A sociological approach to the study of urban phenomena. Lectures deal with both methodological and theoretical issues relating to the study of urban social structures. Seminars provide students with the opportunity to examine critically a number of community studies. A research project is undertaken by each student.

36.925G Housing Law and Administration
Housing acts and regulations at Commonwealth, State and local levels. Related town planning acts ordinances. Commonwealth-State Housing Agreements. The organization and administration of public housing authorities. Significant overseas housing policies.

36.934G Introduction to Planning (G)
Structure of towns, cities and regions. Needs and activities of people. Land use, transport and service systems. Planning theories, aims and objectives. Planning at different scales and in different time frames. Planning as a process. Planning studies, information systems, statistics, research methodology, computer applications.

36.935G Local Planning 1 (G)
Theories at the local level: neighbourhood and precinct concepts, local community structure, survey and analysis. Subdivision and housing layout, basic transportation planning and management, street design, landscaping, utilities. Practice of planning new neighbourhoods and proposals for conservation and redevelopment.

36.936G Local Planning 2 (G)

36.937G Regional Planning 1 (G)
Theories at the metropolitan level. Accessibility, equity, economics, politics. Structure and organization, land use and transportation relationships. Forecasting, alternative futures. Incremental decision making. Integrating local and metropolitan planning.

36.938G Regional Planning 2 (G)

36.939G Law and Administration Planning (G)
Theory and practice of statutory planning. The legal framework. The administrative framework. Environmental

36.945G The Organization of Town Planning
Aims, means and consequences of town planning in Australia. Aims of planning: organization of the environment in respect of space and time, interrelationship of functions, equity of resource distribution, human satisfaction, the nature of the planning approach. Means of planning: overview of the planning process, laws related to planning, planning assessment procedures, environmental management at different levels, decision-making processes – financiers’, firms’ and private decisions, changes in public values, public participation, political and economic constraints. Consequences of planning: illustrative case studies, evaluation of planning methodology and procedures.

Landscape Architecture

37.101G Landscape Project
A project relating to the practice of landscape architecture selected by the student and approved by the academic staff of the school. The project should represent a synthesis of the knowledge and skills that have been acquired during the course of study and will be supervised by a member of the academic staff. Appropriate methodologies and techniques will be used for assessment, analysis, and evaluation of project parameters.

37.102G Landscape Research Project
A research project directed at furthering the body of knowledge relating to the art and science of landscape architecture selected by the student and approved by the academic staff of the school. The research project should be a synthesis of the knowledge and skills acquired during the course of study, and should further the student’s knowledge or expertise in a specialized field of study. Emphasis will be placed on continued development of research skills in the areas of data collection, analysis, interpretation and presentation. The research project will be supervised by members of the academic staff of the University.

37.161G Land Systems and Management
An investigation of resources and their management in relation to a range of land use types with an emphasis on an ecological approach. Subject material includes consideration of management of cultural as well as natural landscapes. Studies of specific examples relating to the effects of human impacts are included. Methods of conservation and rehabilitation are considered. Field excursions are included.

37.504G Conservation Studies
An investigation of the concepts of environmental heritage concerning aspects of landscape architecture and conservation issues. The application of environmental heritage in the fields of planning and design. Investigation of case studies of the natural and cultural environment. Projects to investigate problems of planning and managing heritage environments. Methods of conservation analysis with an emphasis on Australian environments and their history.

37.901G Landscape Planning
Introduction to the discipline of landscape planning. Explores a range of basic methods and techniques for the collection, analysis, and valuation of landscape resource data. Application of this knowledge in the development of simple landscape planning models. Participation in a planning exercise applying these skills and knowledge using simple computing techniques.

37.902G Landscape Planning Methods
Examination and comparison of a range of landscape planning methods using examples from Australia and overseas. Students conduct research relating to the physical parameters of models for land use evaluation and environmental impact assessment. Participation in planning exercises involving the application of these models using advanced computing techniques.

37.903G Landscape Planning Project
Students will work in an interdisciplinary group setting to undertake a major landscape planning exercise. The project will place emphasis on the use of advanced computer modelling techniques. Individual research and seminar presentations will form a major part of the assessment.

37.904G Visual Landscape Assessment
Examination of visual analysis, assessment and evaluation techniques and their incorporation into landscape planning models. Research and study of recent Australian and overseas examples of visual resource management programs. Students will undertake visual planning exercises using relevant computer software.

Graduate School of the Built Environment

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

39.101G Contextual Studies
The scope and international context of conservation. History, concepts and philosophies of the discipline. Definition of conservation processes, including preservation, restoration, rehabilitation, reconstruction, alteration, repair, adaption and reuse, infill, urban conservation. Conservation as a heritage consideration, including the criteria for selecting, listing and classifying structures; as a non-heritage consideration, including aspects of economics and construction; and as a planning, landscape and townscape consideration. The current legal framework. Government, semi-government and community conservation organizations and their roles.
39.102G Architectural History S1
The rationale, investigation and interpretation of architectural history. The cause-and-effect relationships, particularly social, underlying architecture. Influences upon Australia from other countries. Detailed studies of selected aspects of architectural and building history, mainly Australian. Traditional technology. Development of technology and the manifestation of style. Histories of selected building types, methods, materials and finishes.

39.103G Conservation Management S2

39.104G Analysis and Documentation A S1

39.105G Analysis and Documentation B S2
Preparation of documentary studies: measurement, photography, reportage. Photogrammetry and its applications.

39.106G Conservation Technology A S1
The integrity of old buildings and their environments, including planning, landscape and architectural considerations. Effects of acts and ordinances.

39.107G Conservation Technology B S2
Identification, understanding and diagnosis of deterioration in traditional structure, construction, decoration and building environments. Development of general techniques for preservation, restoration, reconstruction and adaptation. Comfort criteria and other functional considerations.

39.108G Conservation Technology C S1
Prerequisite: 39.107G or equivalent.
Policies and techniques appropriate to preservation, restoration, reconstruction and adaptation of heritage structures. Integration of new services and functions. Case studies.

39.109G Conservation Technology D S2
Prerequisite: 39.107G or equivalent.
Policies and techniques appropriate to adaptive reuse and other treatments of non-heritage structures. Integration of new services and functions. Case studies.

39.110G Graduate Project F
An appropriate conservation topic from any appropriate area, including such fields as historical archaeology, documentation, legislation, economics, technology, or a specific building restoration project. Conditions governing submission of the Project Report appear in the Calendar.

39.301G New Development Studies S1 T2
Seminar group study in new ideas, activities and resources which affect the future development of research, education and practice in the man-made environment.

39.302G Research Studies S1 T2
Research viewed within a framework of priorities, policies, and interdependencies including case studies, resources, methodology and the preparation of research proposals.

39.303G Directed Studies S1 T2
The conduct and report of findings of a short research project in the area of the student's concentration designed to meet the individual's needs and interests and supportive to the major research topic.

39.501G Industrial Design Studies F
Prerequisite: Nil.
1. The objectives and methods of graduate study in industrial design: contemporary industrial design trends, the relationship between academic and practice objectives, the relationship of industrial design methodology and research techniques to those of other disciplines at the University. 2. A diverse range of current professional and theoretical interests, design and design related activities in Australia and overseas, current ideologies and historical assessments. Seminars are given by students, theorists, and practitioners in design and design related areas.

39.502G Graduate Project (MID) F
Co-requisite: 39.522G.
A project within the practice areas of industrial design, selected by the student subject to the approval of the School; conducted within an approved methodology. Documentation of the methodology, research strategy and techniques, monitoring of the design process, resultant design, and evaluation of the methodology, research and final design. Students should give consideration to the School's specialist areas.

39.503G Design Media Communication S1
Prerequisite: Nil.
The major two and three dimensional media and computer techniques are analysed and demonstrated within the context of industrial design problem solving: orthographic techniques, the Australian Engineering Drawing Standard, graphic art processes, photography, current rendering and illustration techniques, modelling in automotive clay, plastic sheet and rigid foams, timbers and metals. The current state of computer aided design as well as its potential in design and the restructuring of engineering decision-making and drafting. Particular emphasis given to each method's role in problem analysis and communication at the concept, detail and final design stages. The social and physiological aspects of communicating design in industry are also examined.

39.511G Ergonomics for Industrial Designers
Prerequisite: Nil.
Objectives, methodology and research techniques of ergonomics. Man/machine, interaction, human perception and performance, anthropometrics, product evaluation, the
establishment of ergonomic parameters in product design and the application of ergonomics in design, the interrelationship of ergonomics and industrial design in the product development process. Students carry out laboratory experiments related to project work and also contribute to the development of a data bank.

39.512G Design Theory
Prerequisite: 39.501G or equivalent.
Research into a theory aspect of industrial design, selected by the student subject to the approval of the School, in the general area of design and design related studies. Students should give consideration to the School's specialist areas. The study may be taken in product design but should not be directly linked to studio project work being undertaken by the student.

39.513G Visual Thinking
Prerequisite: Nil.
Visual language, media, problems and problem solving methods. The relationship between visual thinking and creative processes. Studies are undertaken in two and three dimensions and are developed within the context of art and design.

39.521G Business Studies for Industrial Designers
Prerequisite: Nil.
The theory and practice of business and industrial management, and marketing. Its application in the product development process and the relation of the process to other business and industrial objectives. Special reference to the Australian industrial context and potential developments resulting from technological and socio-economic change. Professional practice and the management of design organizations in the general context of business and industrial management.

39.522G Industrial Design
Co-requisite: 39.501G.
Industrial design project work intended to integrate the student's previous experience and the course units in preparatory work for the Graduate Project. A part of the course may be undertaken on a group basis.

39.523G Industrial Design A
Co-requisite: 39.501G.
Project work designed to introduce industrial design research and studio methodologies. Studies undertaken within a broad range of product areas and related to the concurrent course work.

39.531G Manufacturing Technology
Prerequisite: Nil.
Industrial processes and materials, production costing and changing production economics. Objectives and structures of the engineering professions and their integration with industrial design in the product development process. Students assist in the development of a data bank.

39.533G Industrial Design B
Co-requisite: 39.523G.
Advanced project work combining the research and practice methodologies of industrial design in product research, development and design, preparatory to undertaking the Graduate Project.

39.541G Industrial Experience
Prerequisite: Enrolment in one of the degrees.
A four week period of approved industrial experience undertaken by full-time students in the mid-year recess and by part-time students in either the mid-year or summer recess. The period is intended to give students first hand interaction with industrial and commercial operations. Normally students are expected to be involved in design activities, however involvement in production, engineering, management and marketing is also considered. Part-time students in approved employment are exempt.

39.543G Graduate Project (MSc(IndDes))
Co-requisite: 39.533G.
A project within the practice areas of industrial design, proposed by the student in consultation with the School and conducted within an approved methodology; documentation of the methodology, research strategy and techniques, monitoring of the design process, result design, and evaluation of the methodology, research and design.

39.651G Mechanical Shock and Vibration
Prerequisite: Nil.
Vibrating systems, strings, rods, beams, plates, shells; radiation characteristics of noise sources; random vibration; structures; fatigue, filters, isolators, attenuators, dampers; impedance.

39.652G Noise Control In Industry
Prerequisite: Nil.
Hearing conservation and community noise; standards and regulations; industrial noise sources; mechanical noise, electrical machinery, aerodynamic noise, jets, ventilation system noise, combustion noise, vibration; noise-reduction techniques: transmission and insertion loss; absorbers; impedance mismatch, vibration isolation; enclosures, barriers; room acoustics; practical measurement of sound power, sound pressure and directivity.

39.901G Acoustic Measuring Systems and Electroacoustics
Prerequisite: Nil.
Transducers; microphones; amplifiers; loudspeakers; filters, recorders, pick-ups; noise generators; acoustic measuring instruments. Sound reinforcement systems; ambience; assisted resonance. Special requirements for translation, language laboratories.

39.902G Advanced Physical Acoustics
Prerequisite: Nil.
Vibrating systems: coupled oscillators, beams, membranes, plates, resonators, acoustic filters, analogs, analogue computer simulation of vibrating systems; transfer of energy from one system to another. Reflection and transmission at walls, rigid walls, flexible walls, multiple walls, impulsive excitation. Sound absorbers: porous absorbers, perforated panel absorbers, sonic and ultrasonic measurement techniques, relation to properties of materials.
39.908G Community Noise Control  S1 L1T1 C2
Introduction; sound and sound propagation, sound power, sound pressure, decibels; sound perception, psychoacoustics loudness, annoyance, phons and dB(A); hearing conservation; acoustic measuring and analysing instruments - sound level meters, filters, analysers, recorders; sound sources; community noise assessment; the NSW Noise Control Act; practical exercises in sound recording, analysis and assessment; noise control - source noise reduction, use of barriers, enclosures, distance, sound absorbing materials; sound transmission through building elements; noise components of environmental impact statements.

39.993G The Ear, Hearing and Hearing Conservation  S1 L1T1 C2
Prerequisites: Nil.
Physiological and psychoacoustic factors in sound perception; discrimination, masking; loudness and annoyance; subjective scales and units; hearing threshold shift; damage risk criteria, hearing conservation programs and audiometry; standards and regulations.

39.994G Graduate Project A  S1 C5
An individual research project on an approved topic in acoustics; preliminary report.

39.995G Community Noise  S2 L2T2 C4
Prerequisites: Nil.
Sources of community noise; sound propagation out of doors; barrier theory; road, rail and air transportation noise; land-use zoning; measurement and assessment of community noise annoyance; standards, acts and regulations.

39.996G Graduate Project B  S2 C10
Prerequisites: 39.994G or equivalent.
An individual research project on an approved topic in acoustics; final report.

39.997G Auditorium Acoustics  S1 L2T1 C3
Prerequisites: Nil.
Subjective and objective criteria for speech and music; speech intelligibility; characteristics of musical sources; reverberation theory, diffusion; steady-state and transient room response; design methods including graphic and model analysis; sound reflectors; sound absorbents.

39.998G Noise Control In Buildings  S2 L2T2 C4
Prerequisites: Nil.
Airborne and impact sound transmission theory and measurement; vibration isolation; single, multiple-leaf and composite partitions; ventilation, plumbing and services noise control; criteria; regulations and standards.
Graduate Study
Conditions for the Award of Higher Degrees

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

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

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

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

For the statements Preparation and Submission of Project Reports and Theses for Higher Degrees and Policy with respect to the Use of Higher Degree Theses see later in this section.

<table>
<thead>
<tr>
<th>Title</th>
<th>Abbreviation</th>
<th>Calendar/Handbook</th>
</tr>
</thead>
<tbody>
<tr>
<td>Doctor of Science</td>
<td>DSc</td>
<td>Calendar</td>
</tr>
<tr>
<td>Doctor of Letters</td>
<td>DLitt</td>
<td>Calendar</td>
</tr>
<tr>
<td>Doctor of Laws</td>
<td>LLD</td>
<td>Calendar</td>
</tr>
<tr>
<td>Doctor of Medicine</td>
<td>MD</td>
<td>Medicine</td>
</tr>
<tr>
<td>Doctor of Philosophy</td>
<td>PhD</td>
<td>Calendar</td>
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<td>Doctor of Philosophy</td>
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<td>and all handbooks</td>
</tr>
<tr>
<td>Master of Applied Science</td>
<td>MAppSc</td>
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<tr>
<td>Master of Architectural Design</td>
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<td>Architecture</td>
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<td>MArchivAdmin</td>
<td>Professional Studies</td>
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<td>Master of Arts</td>
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<td></td>
<td>University College</td>
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<tr>
<td>Master of Biomedical Engineering</td>
<td>MBiomedE</td>
<td>Engineering</td>
</tr>
<tr>
<td>Master of Building</td>
<td>MBuild</td>
<td>Architecture</td>
</tr>
<tr>
<td>Master of the Built Environment</td>
<td>MBEuv</td>
<td>Architecture</td>
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<tr>
<td>Master of the Built Environment (Building Conservation)</td>
<td>MBEnv</td>
<td>Architecture</td>
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<td>Master of Business Administration</td>
<td>MBA</td>
<td>AGSM</td>
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<td>Master of Chemistry</td>
<td>MChem</td>
<td>Sciences*</td>
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<tr>
<td>Master of Cognitive Science</td>
<td>MCodSc</td>
<td>Arts</td>
</tr>
<tr>
<td>Master of Commerce (Honours)</td>
<td>MCom(Hons)</td>
<td>Commerce</td>
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<td>Master of Commerce</td>
<td>MCom</td>
<td>Commerce</td>
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<tr>
<td>Master of Community Health</td>
<td>MCH</td>
<td>Medicine</td>
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<td>Master of Construction Management</td>
<td>MConstMgt</td>
<td>Architecture</td>
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<td>Master of Education</td>
<td>ME</td>
<td>Professional Studies</td>
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<td>Master of Educational Administration</td>
<td>MEAdmin</td>
<td>Professional Studies</td>
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<tr>
<td>Master of Engineering</td>
<td>ME</td>
<td>Applied Science Engineering</td>
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<tr>
<td>Master of Engineering without supervision</td>
<td>MEngSc</td>
<td>Applied Science Engineering</td>
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<tr>
<td>Master of Engineering Science</td>
<td>MEngSc</td>
<td>Applied Science Engineering</td>
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<tr>
<td>Master of Environmental Studies</td>
<td>MEnvStudies</td>
<td>Applied Science</td>
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<tr>
<td>Master of Health Administration</td>
<td>MHA</td>
<td>Professional Studies</td>
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<tr>
<td>Master of Health Personnel Education</td>
<td>MHPEd</td>
<td>Medicine</td>
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<tr>
<td>Master of Health Planning</td>
<td>MHP</td>
<td>Professional Studies</td>
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<td>Master of Industrial Design</td>
<td>MID</td>
<td>Architecture</td>
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<td>Master of Landscape Planning</td>
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<td>Architecture</td>
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<td>Master of Laws</td>
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<td>Professional Studies</td>
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<td>Master of Mathematics</td>
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<td>Sciences*</td>
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<td>Master of Management Economics</td>
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<td>University College</td>
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<td>Master of Music</td>
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<td>Arts</td>
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<td>Master of Nursing Administration</td>
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<td>Professional Studies</td>
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<tr>
<td>Master of Optometry</td>
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<td>Sciences*</td>
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<tr>
<td>Master of Paediatrics</td>
<td>MPaed</td>
<td>Medicine</td>
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<tr>
<td>Master of Physics</td>
<td>MPhysics</td>
<td>Sciences*</td>
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<tr>
<td>Master of Project Management</td>
<td>MPM</td>
<td>Architecture</td>
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<tr>
<td>Master of Psychology (Clinical)</td>
<td>MPsychol</td>
<td>Sciences§</td>
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<tr>
<td>Master of Psychology (Applied)</td>
<td>MPsychol</td>
<td>Engineering</td>
</tr>
<tr>
<td>Master of Safety Science</td>
<td>MSafetySc</td>
<td>Applied Science Engineering</td>
</tr>
<tr>
<td>Master of Science</td>
<td>MSc</td>
<td>Architecture</td>
</tr>
<tr>
<td>Master of Science without supervision</td>
<td>MSc</td>
<td>Engineering</td>
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</table>

Note: The table continues with similar entries for various Master's degrees in different fields. The abbreviations and calender/Handbook details are provided for each entry.
Title | Abbreviation | Calendar/Handbook
--- | --- | ---
Master of Science (Acoustics) | MSc(Acoustics) | Architecture
Master of Science (Industrial Design) | MSc(IndDes) | Architecture
Master of Science and Society | MScSc | Arts
Master of Social Work | MSW | Professional Studies
Master of Statistics | MStat | Sciences*
Master of Surgery | MS | Medicine
Master of Surveying | MSurv | Engineering
Master of Surveying without supervision | MSurv | Engineering
Master of Surveying Science | MSurvSc | Engineering
Master of Town Planning | MTP | Architecture
Master of Welfare Policy | MWP | Professional Studies
Graduate Diploma | GradDip | Applied Science
**Graduate Diplomas**
GradDIp - Applied Science
GradDIp - Architecture
GradDIp - Engineering
GradDIp - Sciences*
DipPaed - Medicine
DipEd - Professional Studies
DiplM-ArchivAdmin - Professional Studies
DiplM-Lib - Professional Studies
DiplFDA - Sciences*

*Faculty of Science.
§Faculty of Biological and Behavioural Sciences.

1. The degree of Doctor of Philosophy may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty or board (hereinafter referred to as the Committee) to a candidate who has made an original and significant contribution to knowledge.

2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor with Honours from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

   (2) In exceptional cases an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

   (3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment as a candidate for the degree.

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed and form which shall be lodged with the Academic Registrar at least one calendar month before the commencement of the session in which enrolment is to begin.

   (2) In every case, before permitting a candidate to enrol, the head of the school* in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available.

   (3) An approved candidate shall be enrolled in one of the following categories:

   (a) full-time attendance at the University;

   (b) part-time attendance at the University.

   (4) A full-time candidate shall be fully engaged in advanced study and research except that the candidate may undertake not more than five hours per week or a total of 240 hours per year on work which is not related to the advanced study and research.

   (5) Before permitting a part-time candidate to enrol, the Committee shall be satisfied that the candidate can devote at least 20 hours each week to advanced study and research for the degree which (subject to (6)) shall include regular attendance at the school* on an average of at least one day per week for 48 weeks each year.

   (6) A candidate shall be required to undertake an original Investigation on an approved topic. The candidate may also be required to undergo such assessment and perform such other work as may be prescribed by the Committee.

* Or department where a department is not within a school or schools or departments where the research is being undertaken in more than one school or department.
The work shall be carried out under the direction of a supervisor appointed from the full-time academic members of the University staff.

The work, other than field work, shall be carried out in a school of the University except that the Committee:

(a) may permit a candidate to spend not more than one calendar year of the program in advanced study and research at another institution provided the work can be supervised in a manner satisfactory to the Committee;

(b) may permit a candidate to conduct the work at other places where special facilities not possessed by the University may be available provided the direction of the work remains wholly under the control of the supervisor;

(c) may permit a full-time candidate, who has been enrolled as a full-time candidate for at least six academic sessions, who has completed the research work and who is writing the thesis, to transfer to part-time candidature provided the candidate devotes at least 20 hours each week to work for the degree and maintains adequate contact with the supervisor.

The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school in which the candidate is enrolled and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

No candidate shall be awarded the degree until the lapse of six academic sessions from the date of enrolment in the case of a full-time candidate or eight academic sessions in the case of a part-time candidate. In the case of a candidate who has had previous research experience the committee may approve remission of up to two sessions for a full-time candidate and four sessions for a part-time candidate.

A full-time candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. A part-time candidate for the degree shall present for examination not later than twelve academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

On completing the program of study a candidate shall submit a thesis embodying the results of the investigation.

The candidate shall give in writing to the Academic Registrar two months notice of intention to submit the thesis.

The thesis shall comply with the following requirements:

(a) It must be an original and significant contribution to knowledge of the subject;

(b) the greater proportion of the work described must have been completed subsequent to enrolment for the degree;

(c) It must be written in English except that a candidate in the Faculty of Arts may be required by the Committee to write a thesis in an appropriate foreign language;

(d) It must reach a satisfactory standard of expression and presentation;

(e) it must consist of an account of the candidate's own research but in special cases work done conjointly with other persons may be accepted provided the Committee is satisfied about the extent of the candidate's part in the joint research.

The candidate may not submit as the main content of the thesis any work or material which has previously been submitted for a university degree or other similar award but may submit any work previously published whether or not such work is related to the thesis.

Four copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees.

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

There shall be not fewer than three examiners of the thesis, appointed by the Academic Board on the recommendation of the Committee, at least two of whom shall be external to the University.

At the conclusion of the examination each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:

(a) the candidate be awarded the degree without further examination; or

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school*; or

* Or department where a department is not within a school or schools or departments where the research is being undertaken in more than one school or department.
Graduate Study: Conditions for the Award of Higher Degrees

(c) the candidate be awarded the degree subject to a further examination on questions posed in
the report, performance in this further examination being to the satisfaction of the Committee; or
(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a
revised form after a further period of study and/or research; or
(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) If the performance at the further examination recommended under (2)(c) above is not to
the satisfaction of the Committee, the Committee may permit the candidate to re-present the
same thesis and submit to further examination as determined by the Committee within a period
specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the results of any
further examination, recommend whether or not the candidate may be awarded the degree. If
it is decided that the candidate be not awarded the degree the Committee shall determine
whether or not the candidate be permitted to resubmit the thesis after a further period of study
and/or research.

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

1. The degree of Master of Architectural Design by formal course work may be awarded by the
Council to a candidate who has satisfactorily completed a program of advanced study.

2. (1) A candidate for the degree shall:
   (a) have been awarded the degree of Bachelor of Architecture with Honours from the University
   of New South Wales or a qualification considered equivalent from another university or tertiary
   institution at a level acceptable to the Higher Degree Committee of the Faculty of Architecture
   (hereinafter referred to as the Committee), and
   (b) have had at least one year's professional practice subsequent to graduation of a kind
   acceptable to the Committee.

   (2) In exceptional cases an applicant who submits evidence of such academic and/or
   professional qualifications as may be approved by the Committee may be permitted to enrol
   for the degree.

   (3) If the Committee is not satisfied with the qualifications submitted by an applicant the
   Committee may require the applicant to undergo such assessment or carry out such work as
   the Committee may prescribe, before permitting enrolment.

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed
form which shall be lodged with the Academic Registrar at least two calendar months before
the commencement of the session in which enrolment is to begin.

   (2) A candidate for the degree shall be required to undertake such formal subjects and pass
   such assessment as prescribed.

   (3) The progress of a candidate shall be reviewed at least once annually by the Committee and
   as a result of its review the Committee may cancel enrolment or take such other action as it
   considers appropriate.

   (4) No candidate shall be awarded the degree until the lapse of two academic sessions from
   the date of enrolment in the case of full-time candidate or three sessions in the case of a part-time
   candidate. The maximum period of candidature shall be four academic sessions from the date
   of enrolment for a full-time candidate and six sessions for a part-time candidate. In special
cases an extension of these times may be granted by the Committee.

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

Fees

Master of Architectural Design (MArchDes)
Qualifications

Enrolment and
Progression

Fees

Master of Architecture
(MArch), Master of
Building (MBuilding),
Master of the Built
Environment (MBEnvi),
Master of Landscape
Architecture (MLArch) and
Master of Town
Planning (MTownP)
2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor of four full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

(2) In exceptional cases an applicant who submits evidence of such academic and/or professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) When the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant, before being permitted to enrol, to undergo such examination or carry out such work as the Committee may prescribe.

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

(2) In every case, before permitting a candidate to enrol, the head of the school in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:
   (a) full-time attendance at the University;
   (b) part-time attendance at the University;
   (c) external - not in regular attendance at the University and using research facilities external to the University.

(4) A candidate shall be required to undertake an original investigation or design on an approved topic. The candidate may also be required to undergo such examination and perform such other work as may be prescribed by the Committee.

(5) The work shall be carried out under the direction of a supervisor appointed from the full-time members of the University staff.

(6) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school in which the candidate is enrolled and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

(7) No candidate shall be granted the degree until the lapse of three academic sessions in the case of a full-time candidate or four academic sessions in the case of a part-time or external candidate from the date of enrolment. In the case of a candidate who has been awarded the degree of Bachelor with Honours or who has had previous research experience the Committee may approve remission of up to one session for a full-time candidate and two sessions for a part-time or external candidate.

(8) A full-time candidate for the degree shall present for examination not later than six academic sessions from the date of enrolment. A part-time or external candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

4. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the original investigation or design.

(2) The candidate shall give in writing two months notice of intention to submit the thesis.

(3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the committee is satisfied about the extent of the candidate’s part in the joint research.

(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.

(5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree thesis.

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

5. (1) There shall be not fewer than two examiners of the thesis, appointed by the Academic Board on the recommendation of the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the merits of the thesis and shall recommend to the Committee that:
(a) the candidate be awarded the degree without further examination; or
(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school; or
(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or
(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or
(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

3. If the performance at the further examination recommended under (2)(c) above is not to
the satisfaction of the Committee, the Committee may permit the candidate to re-present the
same thesis and submit to a further oral, practical or written examination within a period
specified by it but not exceeding eighteen months.

4. The Committee shall, after consideration of the examiners' reports and the reports of any
oral or written or practical examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the
Committee shall determine whether or not the candidate may resubmit the thesis after a further
period of study and/or research.

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

1. The degree of Master of Project Management by formal course work may be awarded by
the Council to a candidate who has satisfactorily completed a program of advanced study.
The degree shall be awarded at Pass or Honours level.

2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor
from the University of New South Wales or a qualification considered equivalent from another
university or tertiary institution at a level acceptable to the Higher Degree Committee of the
Faculty of Architecture (hereinafter referred to as the Committee).
(2) In exceptional cases of an applicant who submits evidence of such other academic and
professional qualifications as may be approved by the Committee may be permitted to enrol
for the degree.
(3) If the Committee is not satisfied with the qualifications submitted by an applicant the
Committee may require the applicant to undergo such assessment or carry out such work as
it may prescribe, before permitting enrolment.

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed
form which shall be lodged with the Academic Registrar at least two calendar months before
the commencement of the session in which enrolment is to begin.
(2) A candidate for the degree shall be required to undertake such formal subjects and pass
such assessment as prescribed.
(3) The progress of a candidate shall be reviewed at least once annually by the Committee
and as a result of its review the committee may cancel enrolment or take such other action as
it considers appropriate.
(4) No candidate shall be awarded the degree at Pass level until the lapse of four academic
sessions from the date of enrolment for a candidate undertaking the program at Pass level and
eight sessions for a candidate undertaking the program at Honours level. In special cases an
extension of these times may be granted by the Committee.

4. (1) A candidate who obtains a grade average of Credit or better in the formal subjects in
3. (2) may undertake a project on an approved topic.
(2) The work shall be carried out under the direction of a supervisor appointed from the full-time
academic members of the University staff.
(3) The candidate shall given in writing to the Academic Registrar two months notice of intention
to submit a report on the project.
(4) Three copies of the project report shall be presented in a form which complies with the
requirements of the University for the preparation and submission of project reports for higher
degrees.
(5) It shall be understood that the University retains the three copies of the project report
submitted for examination and is free to allow the project report to be consulted or borrowed.
Subject to the provisions of the Copyright Act, 1968, the University may issue the project report
in whole or in part, in microfilm or other copying medium.
Examination

5. (1) There shall be not fewer than two examiners of the project report, appointed by the Academic Board on the recommendation of the Committee.

(2) Arrangements shall be made for oral presentation and defence of the project report as part of the examination.

(3) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the project report and shall recommend to the Committee that:

(a) the project report be noted as satisfactory; or
(b) the project report be noted as satisfactory subject to minor corrections being made to the satisfaction of the head of the school; or
(c) the project report be noted as unsatisfactory but that the candidate be permitted to resubmit it in a revised form after a further period of study and/or research; or
(d) the project report be noted as unsatisfactory and that the candidate be not permitted to resubmit it.

(4) The Committee shall, after considering the examiners' reports and the candidate's results of assessment in the prescribed formal subjects, recommend that the candidate be awarded the degree at Pass or Honours level. If it is decided that the project report is unsatisfactory the Committee shall determine whether or not the candidate may resubmit it after a further period of study and/or research.

Fees

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

Master of the Built Environment (Building Conservation) (MBEnv), Master of Industrial Design (MID), Master of Science (Acoustics) (MSc(Acoustics)), and Master of Science (Industrial Design) (MSc(IndDes))

Qualifications

1. The degree of Master of the Built Environment (Building Conservation) or Master of Industrial Design or Master of Science (Acoustics) or Master of Science (Building) or Master of Science (Industrial Design) may be awarded by the Council to a candidate who has completed a program of advanced study.

2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor of four full-time years duration (or the part-time equivalent) from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Architecture (hereinafter referred to as the Committee).

(2) In exceptional cases an applicant who submits evidence of such academic and/or professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.

(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

Enrolment and Progression

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Academic Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the degree until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or four sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions from the date of enrolment for a full-time candidate and eight sessions for a part-time candidate. In special cases an extension of these times may be granted by the Committee.

Project Report

4. (1) A candidate shall also be required to undertake a project on an approved topic.

(2) The work shall be carried out under the direction of a supervisor appointed from the full-time academic members of the University staff.

(3) The candidate shall give in writing to the Academic Registrar two months notice of intention to submit a report on the project.
Three copies of the project report shall be presented in a form which complies with the requirements of the University for the preparation and submission of project reports for higher degrees.

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

5. (1) There shall be not fewer than two examiners of the project report, appointed by the Academic Board on the recommendation of the Committee.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the project report and shall recommend to the Committee that:

(a) the project report be noted as satisfactory; or

(b) the project report be noted as satisfactory subject to minor corrections being made to the satisfaction of the head of the school; or

(c) the project report be noted as unsatisfactory but that the candidate be permitted to resubmit it in a revised form after a further period of study and/or research; or

(d) the project report be noted as unsatisfactory and that the candidate be not permitted to resubmit it.

(3) The Committee shall, after considering the examiners' reports and the candidate's results of assessment in the prescribed formal subjects, recommend whether or not the candidate may be awarded the degree. If it is decided that the project report is unsatisfactory the Committee shall determine whether or not the candidate may resubmit it after a further period of study and/or research.

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

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

2. (1) A candidate for the degree shall have been awarded an appropriate degree of Bachelor from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Committee.

(2) An applicant who submits evidence of such other academic or professional attainments as may be approved by the Committee may be permitted to enrol for the degree.

(3) When the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant, before being permitted to enrol, to undergo such examination or carry out such work as the Committee may prescribe.

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

(2) In every case, before permitting a candidate to enrol, the head of the school* in which the candidate intends to enrol shall be satisfied that adequate supervision and facilities are available.

(3) An approved candidate shall be enrolled in one of the following categories:

(a) full-time attendance at the University;

(b) part-time attendance at the University;

(c) external - not in regular attendance at the University and using research facilities external to the University.

(4) A candidate shall be required to undertake an original investigation on an approved topic. The candidate may also be required to undergo such examination and perform such other work as may be prescribed by the Committee.

(5) The work shall be carried out under the direction of a supervisor appointed from the full-time members of the University staff.

(6) The progress of a candidate shall be reviewed annually by the Committee following a report by the candidate, the supervisor and the head of the school* in which the candidate is enrolled

*Or department where a department is not within a school or schools or departments where the research is being undertaken in more than one school or department.
and as a result of such review the Committee may cancel enrolment or take such other action as it considers appropriate.

(7) No candidate shall be granted the degree until the lapse of three academic sessions in the case of a full-time candidate or four academic sessions in the case of a part-time of external candidate from the date of enrolment. In the case of a candidate who has been awarded the degree of Bachelor with Honours or who has had previous research experience the Committee may approve remission of up to one session for a full-time candidate and two sessions for a part-time or external candidate.

(8) A full-time candidate for the degree shall present for examination not later than six academic sessions from the date of enrolment. A part-time or external candidate for the degree shall present for examination not later than ten academic sessions from the date of enrolment. In special cases an extension of these times may be granted by the Committee.

Thesis

4. (1) On completing the program of study a candidate shall submit a thesis embodying the results of the original investigation.

(2) The candidate shall give in writing two months notice of intention to submit the thesis.

(3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.

(4) The candidate may also submit any work previously published whether or not such work is related to the thesis.

(5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree theses.

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

Examination

5. (1) There shall be not fewer than two examiners of the thesis, appointed by the Academic Board on the recommendation of the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.

(2) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the merits of the thesis and shall recommend to the Committee that:

(a) the candidate be awarded the degree without further examination; or

(b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school; or

(c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or

(d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or

(e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.

(3) If the performance at the further examination recommended under (2)(c) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to a further oral, practical or written examination within a period specified by it but not exceeding eighteen months.

(4) The Committee shall, after consideration of the examiners' reports and the reports of any oral or written or practical examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.

Fees

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

Master of Engineering (ME), Master of Science (MSc) and Master of Surveying (MSurv) without supervision

1. The degree of Master of Engineering or Master of Science or Master of Surveying without supervision may be awarded by the Council on the recommendation of the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee) to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.

2. A candidate for the degree shall have been awarded an appropriate degree of Bachelor from the University of New South Wales with at least three years relevant standing in the case
3. An application to enrol as a candidate for the degree without supervision shall be made on the prescribed form which shall be lodged with the Academic Registrar not less than six months before the intended date of submission of the thesis. A graduate who intends to apply in this way should, in his or her own interest, seek at an early stage the advice of the appropriate head of school* with regard to the adequacy of the subject matter and its presentation for the degree. A synopsis of the work should be available.

4. (1) A candidate shall submit a thesis embodying the results of the investigation.
   (2) The candidate shall give in writing to the Academic Registrar two months notice of intention to submit the thesis.
   (3) The thesis shall present an account of the candidate's own research. In special cases work done conjointly with other persons may be accepted, provided the Committee is satisfied about the extent of the candidate's part in the joint research.
   (4) The candidate may also submit any work previously published whether or not such work is related to the thesis.
   (5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees.
   (6) It shall be understood that the University retains the three copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act 1968, the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium.

5. (1) There shall be not fewer than two examiners of the thesis, appointed by the Academic Board on the recommendation of the Committee, at least one of whom shall be external to the University unless the Committee is satisfied that this is not practicable.
   (2) Before the thesis is submitted to the examiners the head of the school* in which the candidate is enrolled shall certify that it is prima facie worthy of examination.
   (3) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:
      (a) the candidate be awarded the degree without further examination; or
      (b) the candidate be awarded the degree without further examination subject to minor corrections as listed being made to the satisfaction of the head of the school*; or
      (c) the candidate be awarded the degree subject to a further examination on questions posed in the report, performance in this further examination being to the satisfaction of the Committee; or
      (d) the candidate be not awarded the degree but be permitted to resubmit the thesis in a revised form after a further period of study and/or research; or
      (e) the candidate be not awarded the degree and be not permitted to resubmit the thesis.
   (4) If the performance at the further examination recommended under (3(c)) above is not to the satisfaction of the Committee, the Committee may permit the candidate to re-present the same thesis and submit to further examination as determined by the Committee within a period specified by it but not exceeding eighteen months.
   (5) The Committee shall, after consideration of the examiners' reports and the results of any further examination, recommend whether or not the candidate may be awarded the degree. If it is decided that the candidate be not awarded the degree the Committee shall determine whether or not the candidate may resubmit the thesis after a further period of study and/or research.

6. A candidates shall pay such fees as may be determined from time to time by the Council.

1. The degree of Master of Landscape Planning by formal course work may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

2. (1) A candidate for the degrees shall have been awarded an appropriate degree of Bachelor from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Architecture (hereinafter referred to as the Committee).
   (2) In exceptional cases of an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree.
Enrolment and Progression

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Academic Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the degree until the lapse of three academic sessions from the date of enrolment.

Project Report

4. (1) A candidate who obtains a grade average of Credit or better in the formal subjects in 3.(2) may undertake a project on an approved topic.

(2) The work shall be carried out under the direction of a supervisor appointed from the full-time academic members of the University staff.

(3) The candidate shall give in writing to the Academic Registrar two months notice of intention to submit a report on the project.

(4) Three copies of the project report shall be presented in a form which complies with the requirements of the University for the preparation and submission of project reports for higher degrees.

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

Examination

5. (1) There shall be not fewer than two examiners of the project report, appointed by the Academic Board on the recommendation of the Committee.

(2) Arrangements shall be made for oral presentation and defence of the project report as part of the examination.

(3) At the conclusion of the examination each examiner shall submit to the Committee a concise report on the project report and shall recommend to the Committee that:

(a) the project report be noted as satisfactory; or
(b) the project report be noted as satisfactory subject to minor corrections being made to the satisfaction of the head of the school; or
(c) the project report be noted as unsatisfactory but that the candidate be permitted to resubmit it in a revised form after a further period of study and/or research; or
(d) the project report be noted as unsatisfactory and that the candidate be not permitted to resubmit it.

(4) The Committee shall, after considering the examiners' reports and the candidate's results of assessment in the prescribed formal subjects, recommend that the candidate be awarded the degree at Pass or Honours level. If it is decided that the project report is unsatisfactory the Committee shall determine whether or not the candidate may resubmit it after a further period of study and/or research.

Fees

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

Graduate Diploma

1. A Graduate Diploma may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

Qualifications

2. (1) A candidate for the diploma shall have been awarded an appropriate degree of Bachelor from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the appropriate faculty (hereinafter referred to as the Committee).

(2) An applicant who submits evidence of such other academic or professional attainments as may be approved by the Committee may be permitted to enrol for the diploma.
(3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment.

3. (1) An application to enrol as a candidate for the diploma shall be made on the prescribed form which shall be lodged with the Academic Registrar at least two calendar months before the commencement of the session in which enrolment is to begin.

(2) A candidate for the diploma shall be required to undertake such formal subjects and pass such assessment as prescribed.

(3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate.

(4) No candidate shall be awarded the diploma until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or four sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions from the date of enrolment for a full-time candidate and six sessions for a part-time candidate. In special cases an extension of these times may be granted by the Committee.

4. A candidate shall pay such fees as may be determined from time to time by the Council.
Scholarships and Prizes

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

Scholarships

Undergraduate Scholarships

Listed below is an outline only of a number of scholarships available to students. Full information may be obtained from Room G20, located on the Ground Floor of the Chancellery.

Unless otherwise indicated in footnotes, applications for the following scholarships should be made to the Academic Registrar by 14 January each year. Please note that not all of these awards are available every year.

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
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<tbody>
<tr>
<td>General</td>
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<tr>
<td>Bursary Endowment Board*</td>
<td>$200 pa</td>
<td>Minimum period of</td>
<td>Merit in HSC and total family income not exceeding $6000.</td>
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<td>approved degree/combined</td>
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<td></td>
<td></td>
<td>degree course</td>
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<tr>
<td>Sam Cracknell Memorial</td>
<td>Up to $3000 pa</td>
<td>1 year</td>
<td>Prior completion of at least 2 years of a degree or diploma course and enrolment in a full-time course during the year of application; academic merit; participation in sport both directly and administratively; and financial need.</td>
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<tr>
<td></td>
<td>payable in fortnightly instalments</td>
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</table>

* Apply to The Secretary, Bursary Endowment Board, PO Box 460, North Sydney 2060, immediately after sitting for HSC.
### Undergraduate Scholarships (continued)

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
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<tbody>
<tr>
<td><strong>General (continued)</strong></td>
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<tr>
<td>Girls Realm Guild</td>
<td>Up to $1500 pa</td>
<td>1 year renewable for the duration of the course subject to satisfactory progress and continued demonstration of need</td>
<td>Available only to female students under 35 years of age who are permanent residents of Australia enrolling in any year of a full-time undergraduate course on the basis of academic merit and financial need.</td>
</tr>
<tr>
<td>W.S. and L.B. Robinson**</td>
<td>Up to $4200 pa</td>
<td>1 year renewable for the duration of the course subject to satisfactory progress</td>
<td>Available only to students who have completed their schooling in Broken Hill or whose parents reside in Broken Hill; for a course related to the mining industry. Includes courses in mining engineering, geology, electrical and mechanical engineering, metallurgical process engineering, chemical engineering and science.</td>
</tr>
<tr>
<td>Universities Credit Union</td>
<td>$500 pa</td>
<td>1 year with the possibility of renewal</td>
<td>Prior completion of at least 1 year of any undergraduate degree course. Eligibility limited to members of the Universities Credit Union Ltd of more than one year’s standing or members of the family of such members.</td>
</tr>
</tbody>
</table>

** Applications close 30 September each year.

### Graduate Scholarships

Application forms and further information are available from the Student Enquiry Counter, located on the Ground Floor of the Chancellery unless an alternative contact address is provided. Information is also available on additional scholarships which may become available from time to time, mainly from funds provided by organizations sponsoring research projects.


Details of overseas awards and exchanges administered by the Department of Employment, Education and Training can be obtained from: Awards and Exchanges Section, Department of Employment, Education and Training, PO Box 826, Woden, ACT 2606.

Where possible, the scholarships are listed in order of faculty.

* Available for reference in the University Library.

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
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<tbody>
<tr>
<td><strong>General</strong></td>
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<tr>
<td>University</td>
<td>Living allowance of $7600 pa.</td>
<td>1-2 years for a Masters and 3-4 years for a PhD degree</td>
<td>Applicants must be honours graduates (or equivalent). Applications to Dean of relevant Faculty.</td>
</tr>
<tr>
<td>Postgraduate Research Scholarships</td>
<td>Other allowances may also be paid.</td>
<td></td>
<td>Applicants must be honours graduates (or equivalent) or scholars who will graduate with honours in current academic year, and who are domiciled in Australia. Applications to Academic Registrar by 31 October.</td>
</tr>
<tr>
<td>Commonwealth Postgraduate Research Awards</td>
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## Graduate Scholarships (continued)

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<thead>
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<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
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<tbody>
<tr>
<td><strong>General (continued)</strong></td>
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<tr>
<td>Commonwealth Postgraduate Course Awards</td>
<td>Living allowance of $8882 pa. Other allowances may also be paid.</td>
<td>1-2 years; minimum duration of course</td>
<td>Applicants must be graduates or scholars who will graduate in current academic year, and who have not previously held a Commonwealth Post-graduate Award. Applicants must be domiciled in Australia. Preference is given to applicants with employment experience. Applications to Academic Registrar by 30 September.</td>
</tr>
<tr>
<td>Australian American Educational Foundation Fulbright Award</td>
<td>Travel expenses and $2000 as establishment allowance.</td>
<td>1 year renewable</td>
<td>Applicants must be graduates who are domiciled in Australia and wish to undertake research or study for a higher degree in America. Applications close 30 September with The Secretary, DEET, AAEF Travel Grants, PO Box 826, Woden ACT 2606.</td>
</tr>
<tr>
<td>Australian Federation of University Women</td>
<td>Amount varies, depending on award</td>
<td>Up to 1 year</td>
<td>Applicants must be female graduates who are members of the Australian Federation of University Women.</td>
</tr>
<tr>
<td>Commonwealth Scholarship and Fellowship Plan</td>
<td>Varies for each country. Generally covers travel, living, tuition fees, books and equipment, approved medical expenses. Marriage allowance may be payable.</td>
<td>Usually 2 years, sometimes 3.</td>
<td>Applicants must be graduates who are Australian Citizens and who are not older than 35 years of age. Tenable in Commonwealth countries other than Australia. Applications close with Academic Registrar in September or October each year.</td>
</tr>
<tr>
<td>The English-Speaking Union (NSW Branch)</td>
<td>$5000</td>
<td>1 year</td>
<td>Applicants must be residents of NSW or ACT. Awarded to young graduates to further their studies outside Australia. Applications close mid-April with The Secretary, Ground Floor, Sydney School of Arts, 275C Pitt Street, Sydney NSW 2000.</td>
</tr>
<tr>
<td>Frank Knox Memorial Fellowships tenable at Harvard University</td>
<td>Stipend of US$7000 pa plus tuition fees</td>
<td>1, sometimes 2 years</td>
<td>Applicants must be British subjects and Australian citizens, who are graduates or near graduates of an Australian university. Applications close with the Academic Registrar mid October.</td>
</tr>
<tr>
<td>Robert Gordon Menzies Scholarship to Harvard</td>
<td>Up to US$15,000</td>
<td>1 year</td>
<td>Tenable at Harvard University. Applicants must be Australian citizens and graduates of an Australian tertiary institution. Applications close 31 December with the Registrar, A.N.U., GPO Box 4, Canberra ACT 2601.</td>
</tr>
<tr>
<td>Gower Scholarship Trust Fund</td>
<td>$4000 pa. Under special circumstances this may be increased.</td>
<td>2 years</td>
<td>Applicants must be members of the Forces or children of members of the Forces who were on active service during the 1939-45 War. Applications close with Academic Registrar by 31 October.</td>
</tr>
<tr>
<td>Donor</td>
<td>Value</td>
<td>Year/s of Tenure</td>
<td>Conditions</td>
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<tr>
<td>General (continued)</td>
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<tr>
<td>Harkness Fellowships of the Commonwealth Fund of New York</td>
<td>Living and travel allowances, tuition and research expenses, health insurance, book and equipment and other allowances for travel and study in the USA</td>
<td>12 to 21 months</td>
<td>Candidates must be Australian citizens and 1. Either members of the Commonwealth or a State Public Service or semi-government Authority. 2. Either staff or graduate students at an Australian university. 3. Individuals recommended for nomination by the Local Correspondents. The candidate will usually have an honours degree or equivalent, or an outstanding record of achievement, and be not more than 36 years of age. Applications close 29 August with the Academic Registrar. Forms available from Mr J Larkin, Bureau of Agriculture and Resource Economics, GPO Box 1563, Canberra ACT 2601.</td>
</tr>
<tr>
<td>The Packer, Shell and Barclays Scholarships to Cambridge University</td>
<td>Living and travel allowances, tuition expenses.</td>
<td>1-3 years</td>
<td>Applicants must be Australian citizens who are honours graduates or equivalent, and under 26 years of age. Applications close 15 October with The Secretary, Cambridge Commonwealth Trust, PO Box 252, Cambridge CB2 ITZ, England.</td>
</tr>
<tr>
<td>The Rhodes Scholarship to Oxford University</td>
<td>Approximately £4200 stg pa</td>
<td>2 years, may be extended for a third year</td>
<td>Unmarried Australian citizens aged between 19 and 25 who have an honours degree or equivalent. Applications close in August each year with The Secretary, University of Sydney, NSW 2006.</td>
</tr>
<tr>
<td>Architecture</td>
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<tr>
<td>The Associated Hardware Manufacturers Scholarship</td>
<td>$1500 ps or such other amount as the Dean may determine.</td>
<td>1 year. Where a recipient is enrolled in a higher degree program and is making satisfactory progress the scholarship may be extended subject to the availability of funds.</td>
<td>Applicants shall have qualified for the degree of Bachelor of Architecture with honours or Bachelor of Building with honours at the University of New South Wales and such graduates shall be of not more than five (5) years standing at the time of taking up the scholarship. Tenable at any approved institution. Applications Registrar by 31 October.</td>
</tr>
<tr>
<td>Byera Hadley Travelling Scholarships*</td>
<td>$5000 pa</td>
<td>1 year.</td>
<td>Awarded to outstanding graduates of a school of architecture in New South Wales for a course of study or research, or other activity contributing to the advancement of architecture. Candidates should be Australian citizens and awards are eligible up to 8 years from graduation.</td>
</tr>
<tr>
<td>The Lindsay Robertson Memorial Travel Award</td>
<td>A maximum of $1500</td>
<td>1 year.</td>
<td>Applicants should be Landscape Architecture graduates of the University of New South Wales. The award is to undertake full-time graduate study or research in Landscape Architecture at an approved institution overseas or in Australia. Applications close 30 May.</td>
</tr>
</tbody>
</table>
Graduate Scholarships (continued)

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
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<tbody>
<tr>
<td>Architecture (continued)</td>
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<tr>
<td>The Master Builders’ Association of NSW</td>
<td>$500</td>
<td>1 year</td>
<td>Applicants must be graduates who have enrolled in the Master of Science (Building) degree course.</td>
</tr>
<tr>
<td>Wightman/University Scholarship</td>
<td>$2000 pa</td>
<td>1 year</td>
<td>Best final year student in BArch degree course proceeding to graduate study. Applications close 30 September.</td>
</tr>
</tbody>
</table>

* Applications to the Registrar, Board of Architects of New South Wales, 33a McLaren Street, North Sydney 2060, not later than 31 March each year.

Prizes

Undergraduate University Prizes

The following table summarizes the undergraduate prizes awarded by the University. Prizes which are not specific to any School are listed under General. All other prizes are listed under the Faculty or Schools in which they are awarded. Information regarding the establishment of new prizes may be obtained from the Examination Section located on the Ground Floor of the Chancellery.

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sydney Technical College Union Award</td>
<td>150.00</td>
<td>Leadership in the development of student affairs, and academic proficiency throughout the course.</td>
</tr>
<tr>
<td>University of New South Wales Alumni Statuette</td>
<td></td>
<td>Achievement for community benefit – students in their final or graduating year</td>
</tr>
<tr>
<td>School of Architecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Board of Architects of New South Wales Eric Daniels in Residential Design</td>
<td>250.00</td>
<td>An outstanding graduand in the School of Architecture. Best performance in design for Residential Accomodation by a student in the bachelor of Architecture degree course.</td>
</tr>
<tr>
<td>Frank Fox Memorial</td>
<td>150.00</td>
<td>11.4334 Historical Research C.</td>
</tr>
<tr>
<td>Frank W. Peplow</td>
<td>100.00</td>
<td>Church Architecture or Design</td>
</tr>
<tr>
<td>James Hardie &amp; Co Pty Ltd</td>
<td>150.00</td>
<td>General proficiency throughout the Bachelor of Architecture degree course.</td>
</tr>
<tr>
<td>Morton Herman Memorial</td>
<td>100.00</td>
<td>Best performance in 11.4336 Measured Studies of Historic Structures in the Bachelor of Architecture degree course.</td>
</tr>
<tr>
<td>Royal Australian Institute of Architects</td>
<td>250.00</td>
<td>Outstanding performance by a student Architectural design and related subjects in the final two years of the course.</td>
</tr>
<tr>
<td>School of Building</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Builders Licensing Board</td>
<td>250.00</td>
<td>Best thesis in the final year of the Bachelor of Building degree course.</td>
</tr>
<tr>
<td>Institute of Wood Science (Australian Branch) - Timber in Building</td>
<td></td>
<td>Book and cheque to the value of $100.00</td>
</tr>
</tbody>
</table>
Undergraduate University Prizes (continued)

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td>School of Building (continued)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>James Hardie &amp; Co Pty Ltd</td>
<td>100.00</td>
<td>Bachelor of Building degree course</td>
</tr>
<tr>
<td>Master Builders' Association of New South Wales</td>
<td>350.00</td>
<td>Merit performance in the Bachelor of Building degree course</td>
</tr>
<tr>
<td>Multiplex Constructions</td>
<td>1000.00</td>
<td>Best performance in Construction 1 to 5.</td>
</tr>
<tr>
<td>School of Landscape Architecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lindsay Robertson Memorial</td>
<td>300.00</td>
<td>37.134 Landscape Design 2</td>
</tr>
<tr>
<td>School of Town Planning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>John Shaw Memorial</td>
<td>400.00</td>
<td>Best result in Thesis in the Bachelor of Town Planning degree course</td>
</tr>
<tr>
<td>The NSW Department of Environment and Planning</td>
<td>350.00</td>
<td>Bachelor of Town Planning degree course, Year 5</td>
</tr>
<tr>
<td>NSW Local Government Association of Planners</td>
<td>150.00</td>
<td>Best thesis produced by a final year student on a topic related to local government planning.</td>
</tr>
<tr>
<td>Royal Aust Planning Institute, NSW Division</td>
<td>150.00</td>
<td>Bachelor of Town Planning degree course, Year 3</td>
</tr>
</tbody>
</table>

Graduate University Prizes

The following table summarizes the undergraduate prizes awarded by the University.

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td>School of Building</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alex Rigby</td>
<td>250.00</td>
<td>Best overall performance in the Master of Building Management course</td>
</tr>
<tr>
<td>T.W. Crow</td>
<td>300.00</td>
<td>Best performance in Year 2 of Building Management</td>
</tr>
</tbody>
</table>
The University of New South Wales Kensington Campus

Theatres

Biomedical Theatres E27
Central Lecture Block E19
Classroom Block (Western Grounds) H3
Rex Vowels Theatre F17
Keith Burrows Theatre J14
Main Building (Physics) Theatrette K14
Mathews Theatres D23
Parade Theatre E3
Science Theatre F13
Sir John Clancy Auditorium C24

Link B6
Maintenance Workshop B13
Materials Science and Engineering E8
Mathews F23
Mechanical and Industrial Engineering J17
Medicine (Administration) B27
Menzies Library E21
Morven Brown (Arts) C20
New College (Anglican) L6
Newton J12
NIDA D2
Paking Station H25
Philip Baxter College D14
Robert Heffron (Chemistry) E12
Sam Cracknell Pavilion H8
Shalmon College (Jewish) N9
Sir Robert Webster (Textile Technology) G14
Squash Courts B7
Swimming Pool B4
Unisearch House L5
University Regiment J2
University Union (Roundhouse) - Stage I E6
University Union (Blockhouse) - Stage II G6
University Union (Squarehouse) - Stage III E4
Wallace Wurth School of Medicine C27
Warrane College M7

Bookshop G17
Building H14
Careers and Employment F15
Cashier's Office C22
Chaplains E15
Chemical Engineering and Industrial Chemistry F10
Chemistry E12
Child Care Centres N8, O14
Civil Engineering H20
Community Medicine D26
Computing Services Department F21, D26
Continuing Education Support Unit F23
Counselling and Careers Service F15
Economics F20
Education G2
Education Testing Centre E15
Electrical Engineering and Computer Science G17
Energy Research, Development and Information Centre F10
Engineering (Faculty Office) K17
English C20
Ethics Committees Secretariat B8
Examinations C22
Fees Office C22
Food Science and Technology F10
French C20
General Staff Office C22
Geography K17
German Studies C20
Graduate Office and Alumni Centre E4
Graduate School of the Built Environment H14
Groundwater Management and Hydrogeology F10
Health Administration C22
History C20
Industrial Arts H14
Industrial Relations and Organizational Behaviour F20
Information Systems F20
Kanga's House O14
Kindergarten (House at Pooh Corner) N8
Landcape Architecture K15
Law (Faculty Office) F21
Law Library F21
Legal Studies and Taxation F20
Liberal and General Studies C20
Librarianship F23
Library E21

Lost Property C22
Marine Science D26
Marketing F20
Materials Science and Engineering E8
Mathematics F23
Mechanical and Industrial Engineering J17
Medical Education C27
Medicine (Faculty Office) B27
Microbiology D26
Mineral Processing and Extractive Metallurgy E8
Mining Engineering K15
Music B11
National Institute of Dramatic Art D2
Off-campus Housing C22
Optometry J12
Pathology C27
Patrol and Cleaning Services C22
Petroleum Engineering D12
Philosophy C20
Physics K15
Physiology and Pharmacology C27
Political Science C20
Printing Unit C22
Psychology F23
Public Affairs Unit C22
Publications Section C22
Remote Sensing K17
Russian Studies C20
Safety Science J17
Science and Mathematics Course Office D26
Science and Technology Studies C20
Social Work G2
Sociology C20
Spanish and Latin American Studies C20
Sport and Recreation Centre B6
Student Health E15
Student Records C22
Students' Union E4 and C21
Surveying K17
Tertiary Education Research Centre E15
Textile Technology G14
Theatre Studies B10
Town Planning K15
Union Shop (Upper Campus) D19
University Archives E21
University Press A28
University Union (Blockhouse) G6
Waste Management H20
WHO Regional Training Centre C27
Wool and Animal Science B8

Buildings

Affiliated Residential Colleges
New (Anglican) L6
Shalom (Jewish) N9
Warrane M7
Applied Science F10
Architecture H14
Arts (Morven Brown) C20
Banks F22
Barker Street Gatehouse N11
Basser College C18
Central Store B13
Chancellery C22
Chemistry
Dalton F12
Robert Heffron E12
Civil Engineering H20
Commerce and Economics (John Goodsell) F20
Dalton (Chemistry) F12
Electrical Engineering G17
Geography and Surveying K17
Goldstein College D16
Golf House A27
Gymnasium B5
House at Pooh Corner N8
International House C6
Jo Myers Studio D8
John Goodsell (Commerce and Economics) F20
Kanga's House 014
Kensington Colleges C17 (Office)
Basser C18
Goldstein D16
Philip Baxter D14

General

Academic Staff Office C22
Accounting F20
Admissions C22
Adviser for Prospective Students F15
Anatomy C27
Applied Economic Research G14
Applied Geology F10
Applied Science (Faculty Office) F10
Architecture (including Faculty Office) H14
Arts (Faculty Office) C20
Audio Visual Unit F20
Australian Graduate School of Management G27
Banking and Finance F20
Biochemistry D26
Biological and Behavioural Sciences (Faculty Office) D26
Biomedical Engineering A28
Biomedical Library F23
Biotechnology D26

Philip Baxter College D14
Graduate School of the Built Environment H14
Graduate Office and Alumni Centre E4
Groundwater Management and Hydrogeology F10
Health Administration C22
History C20
Industrial Arts H14
Industrial Relations and Organizational Behaviour F20
Information Systems F20
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Kindergarten (House at Pooh Corner) N8
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Librarianship F23
Library E21

Lost Property C22
Marine Science D26
Marketing F20
Materials Science and Engineering E8
Mathematics F23
Mechanical and Industrial Engineering J17
Medical Education C27
Medicine (Faculty Office) B27
Microbiology D26
Mineral Processing and Extractive Metallurgy E8
Mining Engineering K15
Music B11
National Institute of Dramatic Art D2
Off-campus Housing C22
Optometry J12
Pathology C27
Patrol and Cleaning Services C22
Petroleum Engineering D12
Philosophy C20
Physics K15
Physiology and Pharmacology C27
Political Science C20
Printing Unit C22
Psychology F23
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Theatre Studies B10
Town Planning K15
Union Shop (Upper Campus) D19
University Archives E21
University Press A28
University Union (Blockhouse) G6
Waste Management H20
WHO Regional Training Centre C27
Wool and Animal Science B8
This Handbook has been specifically designed as a source of reference for you and will prove useful for consultation throughout the year.
For fuller details about the University – its organization, staff membership, description of disciplines, scholarships, prizes, and so on, you should consult the Calendar.
The Calendar and Handbooks also contain a summary list of higher degrees as well as the conditions for their award applicable to each volume.
For detailed information about courses, subjects and requirements of a particular faculty you should consult the relevant Faculty Handbook.
Separate Handbooks are published for the Faculties of Applied Science, Architecture, Arts, Commerce and Economics, Engineering, Law, Medicine, Professional Studies, Science (including Biological and Behavioural Sciences and the Board of Studies in Science and Mathematics), and the Australian Graduate School of Management (AGSM).
The Calendar and Handbooks, which vary in cost, are available from the Cashier’s Office.