Heraldic Description of Arms

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

The lion and the four stars of the Southern Cross on the Cross of St George have reference to the State of New South Wales which brought the University into being; the open book with SCIENTIA across its page reminds us of its original purpose. Beneath the shield is the motto 'Manu et Mente' ('with Hand and Mind'), which is the motto of the Sydney Technical College, from which the University has developed. The motto is not an integral part of the Grant of Arms and could be changed at will; but it was the opinion of the University Council that the relationship with the parent institution should in some way be recorded.
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 9 October 1989, but may be amended without notice by the University Council.

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## Graduate Study

### Subject Descriptions

**Identification of Subjects by Number**
- **1130** Doctor of Philosophy (PhD) 59
- **2200** Master of Architecture (MArch) 59
- **8140** Master of Architectural Design (MArchDes) 59
- **2206** Master of Science (by Research) 60

**School of Architecture**
- **1130** Doctor of Philosophy (PhD) 59
- **2200** Master of Architecture (MArch) 59
- **8140** Master of Architectural Design (MArchDes) 59
- **2206** Master of Science (by Research) 60

**School of Building**
- **1140** Doctor of Philosophy (PhD) 60
- **2210** Master of Building (MBuild) 60
- **8116** Master of Project Management (MProjMgt) 60
- **8125** Master of Construction Management (MConstMgt) 61

**School of Landscape Architecture**
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- **2220** Master of Landscape Architecture (MLArch) 62
- **8135** Master of Landscape Planning (MLP) 62
- **6215** Graduate Diploma in Landscape Planning (GradDiplP) 62

**School of Town Planning**
- **1150** Doctor of Philosophy (PhD) 63
- **2230** Master of Town Planning (by Research) (MTP) 63

**Graduate Study: Subject Descriptions**

**Architecture**

**Building**

**Town Planning**

**Landscape Architecture**

**Graduate School of the Built Environment**

### Graduate Courses

- **1120** Doctor of Philosophy (PhD) 54
- **2201** Master of Architecture (MArch) 55
- **8100** Master of Science (Acoustics) (MSc(Acoustics)) 55
- **8130** Master of the Built Environment (Building Conservation) (MBEn) 56

**Department of Industrial Design**

- **8145** Master of Industrial Design (MID) 57
- **8146** Master of Science (Industrial Design) (MSc(IndDes)) 57

**Graduate School of the Built Environment**

### Graduate Enrolment Procedures

**Higher Degrees - Research**

**Summary of Conditions for the Award of a Masters Degree**

**Graduate Courses**

**Graduate School of the Built Environment**

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- **2201** Master of Architecture (MArch) 55
- **2240** Master of the Built Environment (MBEn) 55
- **8100** Master of Science (Acoustics) (MSc(Acoustics)) 55
- **8130** Master of the Built Environment (Building Conservation) (MBEn) 56

**Department of Industrial Design**

- **8145** Master of Industrial Design (MID) 57
- **8146** Master of Science (Industrial Design) (MSc(IndDes)) 57

**School of Architecture**

- **1130** Doctor of Philosophy (PhD) 59
- **2200** Master of Architecture (MArch) 59
- **8140** Master of Architectural Design (MArchDes) 59
- **2206** Master of Science (by Research) 60

**School of Building**

- **1140** Doctor of Philosophy (PhD) 60
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**School of Landscape Architecture**

- **1160** Doctor of Philosophy (PhD) 61
- **2220** Master of Landscape Architecture (MLArch) 62
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**School of Town Planning**

- **1150** Doctor of Philosophy (PhD) 63
- **2230** Master of Town Planning (by Research) (MTP) 63

**Graduate Study: Subject Descriptions**

**Identification of Subjects by Number**

**Architecture**

**Building**

**Town Planning**

**Landscape Architecture**

**Graduate School of the Built Environment**

### Graduate Study: Conditions for the Award of Higher Degrees

- **Doctor of Philosophy**
- **Master of Architectural Design**
- **Master of Architecture, Master of Building, Master of the Built Environment, Master of Landscape Architecture and Master of Town Planning**
- **Master of Project Management**
- **Master of the Built Environment (Building Conservation), Master of Industrial Design, Master of Science (Acoustics), and Master of Science (Industrial Design)**
- **Master of Engineering and Master of Science**
- **Master of Engineering, Master of Science and Master of Surveying without supervision**
- **Master of Landscape Planning**
- **Graduate Diploma**

### Scholarships and Prizes

- **Scholarships**
- **Prizes**

**Undergraduate**

**Graduate**

**Scholarships**

**Prizes**

**Undergraduate**

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**1990**

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<tr>
<th>Session 1 (67 teaching days)</th>
<th>1990</th>
<th>1991</th>
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<tbody>
<tr>
<td>Recess</td>
<td>26 February to 12 April</td>
<td>4 March to 28 March</td>
</tr>
<tr>
<td></td>
<td>13 April to 22 April</td>
<td>29 March to 7 April</td>
</tr>
<tr>
<td></td>
<td>23 April to 7 June</td>
<td>8 April to 14 June</td>
</tr>
<tr>
<td>Study Recess</td>
<td>6 June to 13 June</td>
<td>15 June to 20 June</td>
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<tr>
<td>Examinations</td>
<td>14 June to 2 July</td>
<td>21 June to 9 July</td>
</tr>
<tr>
<td>Midyear Recess</td>
<td>3 July to 22 July</td>
<td>10 July to 28 July</td>
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<table>
<thead>
<tr>
<th>Session 2 (67 teaching days)</th>
<th>1990</th>
<th>1991</th>
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<tr>
<td>Recess</td>
<td>23 July to 21 September</td>
<td>29 July to 27 September</td>
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<td></td>
<td>22 September to 1 October</td>
<td>26 September to 7 October</td>
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<td></td>
<td>2 October to 31 October</td>
<td>8 October to 6 November</td>
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<td>Study Recess</td>
<td>1 November to 6 November</td>
<td>7 November to 12 November</td>
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<td>Examinations</td>
<td>7 November to 23 November</td>
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<td>Vacation weeks</td>
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<td>common to Australian</td>
<td>2 July to 8 July</td>
<td>8 July to 14 July</td>
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<tr>
<td>universities</td>
<td>24 September to 30 September</td>
<td>30 September to 6 October</td>
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**Important Dates for 1990**

**January**

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<th>M</th>
<th>January</th>
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<th>February</th>
<th>M</th>
<th>March</th>
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<th>April</th>
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<td>1</td>
<td>New Year’s Day – Public Holiday</td>
<td>5</td>
<td>Last day for acceptance of applications</td>
<td>9</td>
<td>Session 1 begins – University College, Australian Defence Force Academy</td>
<td>12</td>
<td>Last day for students to discontinue without failure subjects which extend over Session 1 only</td>
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<tr>
<td>5</td>
<td>Last day for acceptance of applications by office of the Admissions Section for transfer to another undergraduate course within the University</td>
<td>9</td>
<td>Re-enrolment period begins for second and later year undergraduate and graduate students enrolled in formal courses</td>
<td>30</td>
<td>Last day for students to discontinue Session 1 and whole year subjects so as not to incur HECS liability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Last day for applications for review of assessment</td>
<td>23</td>
<td>Last day for acceptance of enrolment by new and re-enrolling students</td>
<td>31</td>
<td>HECS Census Date for Session 1</td>
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<td>15</td>
<td>Term 1 begins – Medicine IV and V</td>
<td>26</td>
<td>Australia Day – Public Holiday</td>
<td>Th</td>
<td>Good Friday – Public Holiday</td>
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<td></td>
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<tr>
<td>28</td>
<td>Australia Day – Public Holiday</td>
<td></td>
<td></td>
<td>F</td>
<td>Mid-session Recess begins</td>
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**Important Dates for 1990**

**February**

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<tr>
<td>5</td>
<td>Enrolment period begins for new undergraduate students and undergraduate students repeating first year</td>
<td>9</td>
<td>Re-enrolment period begins for second and later year undergraduate and graduate students enrolled in formal courses</td>
<td>30</td>
<td>Last day for students to discontinue Session 1 and whole year subjects so as not to incur HECS liability</td>
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<td>23</td>
<td>Last day for acceptance of enrolment by new and re-enrolling students</td>
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<td>31</td>
<td>HECS Census Date for Session 1</td>
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<td>28</td>
<td>Session 1 begins – all courses except Medicine IV and V and the University College</td>
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<td>Good Friday – Public Holiday</td>
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<td>12</td>
<td>Last day for students to discontinue without failure subjects which extend over Session 1 only</td>
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<td>F</td>
<td>Mid-session Recess begins</td>
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<td>April</td>
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<td>Last day for students to discontinue Session 1 and whole year subjects so as not to incur HECS liability</td>
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<td>Good Friday – Public Holiday</td>
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<td>S 14</td>
<td>Easter Saturday – Public Holiday</td>
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<td>M 16</td>
<td>Easter Monday – Public Holiday</td>
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<td>Su 22</td>
<td>Mid-session Recess ends</td>
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<tr>
<td>W 25</td>
<td>Anzac Day – Public Holiday</td>
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<td>T 8</td>
<td>Publication of provisional timetable for June examinations</td>
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<td>W 16</td>
<td>Last day for students to advise of examination clashes</td>
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<tr>
<td>T 29</td>
<td>Publication of timetable for June examinations</td>
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<td>Study Recess begins</td>
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<td>M 11</td>
<td>Queen's Birthday – Public Holiday</td>
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<td>W 13</td>
<td>Study Recess ends</td>
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<td>Th 14</td>
<td>Examinations begin</td>
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<td>M 2</td>
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<td>Su 22</td>
<td>Mid-year Recess ends</td>
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<td>M 23</td>
<td>Session 2 begins</td>
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<td>Last day for applications for review of Session 1 assessment results</td>
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<td>Last day for students to discontinue without failure subjects which extend over the whole academic year. Last day applications are accepted from students to enrol in Session 2 subjects.</td>
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<tr>
<td>F 31</td>
<td>HECS Census Day for Session 2. Last day for students to discontinue Session 2 and whole year subjects so as not to incur HECS liability</td>
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<th>September</th>
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<td>F 7</td>
<td>Last day for students to discontinue without failure subjects which extend over Session 2 only</td>
<td></td>
</tr>
<tr>
<td>S 22</td>
<td>Mid-session Recess ends</td>
<td></td>
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<tr>
<td>F 28</td>
<td>Closing date for applications to the Universities and Colleges Admission Centre</td>
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<td>M 1</td>
<td>Labour Day – Public Holiday</td>
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<td></td>
<td>Mid-session Recess ends</td>
<td></td>
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<tr>
<td>T 2</td>
<td>Publication of provisional timetable for November examinations</td>
<td></td>
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<tr>
<td>W 10</td>
<td>Last day for students to advise of examination clashes</td>
<td></td>
</tr>
<tr>
<td>T 23</td>
<td>Publication of timetable for November examinations</td>
<td></td>
</tr>
<tr>
<td>W 31</td>
<td>Session 2 ends</td>
<td></td>
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<table>
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<th>November</th>
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<tbody>
<tr>
<td>Th 1</td>
<td>Study Recess begins</td>
<td></td>
</tr>
<tr>
<td>T 6</td>
<td>Study Recess ends</td>
<td></td>
</tr>
<tr>
<td>W 7</td>
<td>Examinations begin</td>
<td></td>
</tr>
<tr>
<td>F 23</td>
<td>Examinations end</td>
<td></td>
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<th>December</th>
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<td>M 10</td>
<td>Assessment results mailed to students</td>
<td></td>
</tr>
<tr>
<td>T 11</td>
<td>Assessment results displayed on University noticeboards</td>
<td></td>
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<td>T 25</td>
<td>Christmas Day – Public Holiday</td>
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<td>Boxing Day – Public Holiday</td>
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<td>M 31</td>
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Staff

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

Dean
Professor A. R. Toakley

Chairman
Associate Professor R. E. Apperly

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

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

School of Architecture

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

Professors of Architecture
Andrew Andersons, BArch Syd.
Philip Cox, BArch Dip TCP Syd., AO, FRAIA,
Jon Lang, BArch Witw., MRP, PhD Cornell

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

Associate Professors
Richard Eric Apperly, BArch Syd., MArch N.S.W., ARAIA
John Albyn Ballinger, BArch Adel., 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 DipAdmin N.S.W.
John Richard Cooke, BArch Syd., LLB MScBuilding N.S.W., FRAIA
Paul-Alan Johnson, BArch Syd., DipCD PhD N.S.W., FRAIA
Bruce Herbert Judd, BArch PhD Syd., ARAIA
Geoffrey Kenneth Le Sueur, BArch GradDip N.S.W., ARAIA
Nicholas Marinov, DipArch Prague, MArch N.S.W.
Alan Ogg, BE N.S.W., MArch Penn.
Richard Patrick ParLOUR, BSc Lond., PhD N.S.W., DipEng Lough.
Peter Reginald Proudfoot, BArch Syd., MArch Penn., PhD N.S.W., Rome Scholar, ARAIA
Barry Vivian Wollaston, BArch Syd., MArch N.S.W., FRAIA

Lecturers
Robert John Bryan, BArch N.S.W., MTCP Syd., ASTC,
DipEnvStud Macq., MRAPI, ARAIA
Geoffrey Lindsay Dwyer, FRAIA
Architecture

Richard Grantley Fitzhardinge, DipArch Kingston on Thames Poly., MArch Calif., ARIBA, ARAIA
Elizabeth Ann Howard, BArch Syd., BA Macq.
Desley Owlyn Luscombe, BSc(Arch) MArch N.S.W.
Susan McLain, BSc(Arch), BArch N.S.W.
Peter Murray, BArch N.S.W., MTCP Syd., DipEnvStud Macq., ARAIA
James David Plume, MArch Syd.
Harry Anthony Stephens, BArch DipLD N.S.W., FRAIA
Kwong Hon Tang, BArch H.K., MArch Melb.
Phillip Taylor, BArch N.S.W., FRAIA

Tutors
Tracey Maree James, BArch N.S.W.
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., MAPS, MAIHR

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

School of Building

Head of School
Graham Edward Levido, BBuild MScBuilding N.S.W., MAIB

Professor of Building
Arthur Raymond Toakley, BCE BA MEngSc Melb., PhD Man., CEng, FIEAust, FAIB

Associate Professor
Roger Mark Anthony Miller, BBuild N.S.W., SMCE M.I.T., FAIB, MACS

Senior Lecturers
Marton Marosszekey, BE N’cle.(N.S.W.), MEngSc N.S.W. MIEAust, MAIB
Karl Goran Runeson, BA MBuild N.S.W., MAIB
Thomas Edward Uher, BBuild MScBuilding N.S.W., MAIB
Clyde Donald Smythe, MBuild N.S.W., ASTC, MAIB

Lecturers
Ojars Indulis Greste, BE ME N.S.W., DEng Calif.
Martin Perry, BSc H.-W., PhD Plymouth
James C. Senogles, MA Oxon, MBA Cape T.

Visiting Fellows
David Nevil Hassall, BE MBdgSc Syd., MIEAust
John Malcolm Hutcheson, MC, BE Syd., BCom Qld., MBA PhD N.S.W., FCIS, FIEAust, AAPI, FID, FAIA, AUQ, LGE, FAIB, FAIM, FSLE, FCDA, FASA, CPA

School of Landscape Architecture

Professor of Landscape Architecture and Head of School
Vacant

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

Senior Lecturer
Helen Beatrice Armstrong, BSc Syd., MArch GradDip N.S.W., AAILA

Lecturers
Douglas Crawford, BArch Melb., GradDip MSc N.S.W., MRAIPR
Helen Evans, BArch GradDip N.S.W., Grad Dip Macq.
Ingrid Raina Mather, BArch N.S.W., AAILA

School of Town Planning

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

Associate Professor
Robert Bolles Zehner, BA Amh., MA PhD Mich., MASA

Senior Lecturers
Stephen Harris, BTP N.S.W., FRAP
Peter Ashton Murphy, BA Syd., PhD Macq.

Lecturers
Andrew Harley Heron Kelly, BTP LLB N.S.W.
Jill Lang, BA Qld., MTCP Syd.
Richard Earl Lloyd, BSc Calif. Poly. State, PhD Calif.
Tamas Lukovich, MCEng MArch PhD Budapest
Graduate School of the Built Environment

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

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

Senior Lecturer
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, AAAIA ARIBA
Robert Charles Lewis Irving, MArch N.S.W., ARMTC, FRAIA

Department of Industrial Design

Senior Lecturer and Head of Department
John Kyle Redmond, BA DiplD(Eng) C.S.A.D., MA R.C.A., FRSA, FDIA

Building Research Centre

Director
Marton Marosszekey

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

Post Graduate Scholars
Michael Chew, BBuil N.S.W.
Chung Min Ng, BE Monash
David Wang, BScBldg. 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, industrial design, landscape architecture and town planning. It provides opportunities for graduate and professional development studies, and for research in an 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.
John Redmond, Department of Industrial Design, Room 212, Sir Robert Webster Building, Extension 4844.

It is University policy to promote equal opportunity in education (refer to EOE Policy Statement, University of New South Wales Calendar and the Guide for Students 1990).

Faculty of Architecture Enrolment Procedures

Architecture Degree Course
All students re-enrolling in Architecture courses in 1990 should obtain a copy of the free booklet Architecture Enrolment Procedures 1990 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 1990. Students are required to complete 6 months of practical experience as part of their course. 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 Rhonda Langford

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.

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.

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.

General Education Requirement

The University requires that all undergraduate students undertake a structured program in General Education as an integral part of studies for their degree.

Among its objectives, the General Education program provides the opportunity for students to discuss some of the key questions they will face as Students and professionals.

The program requires students to undertake studies in three areas:

A. An introduction in non-specialist terms to an understanding of the environments in which humans function.
B. An introduction to, and critical reference upon, the cultural bases of knowledge, belief, language, identity and purpose.
C. An introduction to the development, design and responsible management of the systems over which human beings exercise some influence and control.

The exact form of category C is still being decided and should be clearly defined in 1990. This could involve, however, a slight subsequent change to the structure of the later years of degree programs.

There are differing requirements for students commencing before and after 1988:


Students must complete a program of General Education in accordance with the requirements in effect when they commenced their degree program. Students yet to complete the General Education requirement may select subjects from any of the three categories of the new program.

2. Students who commenced their undergraduate program in 1988 and subsequent years.

Students must complete a program of subjects elected from each of the three categories of subject in accordance with the rules defined in the General Education Handbook and in sequences specified in the requirements for individual courses.

Further information may be obtained from the office of the Centre for Liberal and General Studies, Room G58, Morven Brown Building, and the General Education Handbook.
Undergraduate Study

The Faculty of Architecture consists of the School of Architecture including the Department of Industrial Design, 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 design, 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 the development of manufactured products. 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 today is an art, a technology and a business. In the modern building industry the architect is the one person who considers the building as a whole end product: serving a purpose, built of materials using technology, to a cost, for a client, providing an environment of space, light and climate, changing its context by its location and form, conveying artistic meaning.

For small buildings the architect can lead and manage the whole process. As projects become larger and more complex the architect becomes a member of a team, sometimes captain of the team, often just one member but always from the beginning seeing the end product as a whole. From a comprehensive study of the requirements for a building the architect prepares a design concept which is continually adjusted and refined over the life of the project. The architect's role is one of continual creativity.

The BArch course provides graduates with an understanding of the forces that shape buildings and with the skills to guide those forces to a desired end product.

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
2. Theory of Architecture
3. History of Architecture
4. Architectural Construction
5. Architectural Structures
6. Environment Control
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 session, 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 pre-requisite lecture 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 four sessions of the course the selection of electives 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 (3265) or the BArch program (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

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
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<tbody>
<tr>
<td><strong>YEAR 1 (SESSIONS 1 &amp; 2)</strong></td>
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</table>

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### B.Arch. Course 3260: Schedule of Subjects

<table>
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<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
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<td>Or</td>
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<td>Practical Experience</td>
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<td>11.6127</td>
<td>Major Design Project</td>
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<tr>
<td>11.6907</td>
<td>Major Research Project</td>
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By invitation.
## B.Arch. Course 3260: Schedule of Subjects

<table>
<thead>
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<th>Subject Name</th>
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<th>Prerequisites</th>
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<td>11.5220</td>
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<td>11.5223</td>
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<td>11.5227</td>
<td>Advanced Graphics</td>
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<tr>
<td>11.5228</td>
<td>Drawing</td>
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<td>11.6103</td>
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<tr>
<td>11.5229</td>
<td>Painting</td>
<td>2</td>
<td>11.6103</td>
</tr>
<tr>
<td>11.5230</td>
<td>Pottery &amp; Ceramics</td>
<td>2</td>
<td>11.6103</td>
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<tr>
<td>11.5231</td>
<td>Rendering</td>
<td>2</td>
<td>11.6103</td>
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<tr>
<td>11.5320</td>
<td>Theory of Form</td>
<td>2</td>
<td>11.6103</td>
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<tr>
<td>11.5321</td>
<td>Criticism and Evaluation</td>
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<td>11.6103</td>
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<tr>
<td>11.5322</td>
<td>Imagination</td>
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<td>11.5323</td>
<td>Spirit in Architecture</td>
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<td>11.5420</td>
<td>Building Conservation</td>
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<td>11.5421</td>
<td>Recent Australian Architecture</td>
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<td>11.5422</td>
<td>Great Architects</td>
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<tr>
<td>11.5423</td>
<td>The City - Sydney</td>
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<td>11.5424</td>
<td>Urban Design</td>
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<td>Landscape Design</td>
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<td>11.5520</td>
<td>Advanced Building Materials 1</td>
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<td>Advanced Construction Systems</td>
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<td>11.5522</td>
<td>Construction, Planning &amp; Management</td>
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<td>11.5523</td>
<td>Advanced Building Materials 2</td>
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<tr>
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<td>11.5720</td>
<td>Design for Energy Efficiency</td>
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<td>11.5721</td>
<td>Design of Lighting</td>
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<td>11.6103</td>
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<tr>
<td>11.5722</td>
<td>Acoustics Studies</td>
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<td>11.5820</td>
<td>Building Economics &amp; Development</td>
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<td>11.5821</td>
<td>Project Management</td>
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<td>11.5822</td>
<td>The Architect and the Law</td>
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<td>11.5920</td>
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<tr>
<td>11.6906</td>
<td>Dissertation</td>
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</tbody>
</table>

### Elective Subjects

The listing for electives includes an allowance for Dissertation and the remaining General Studies elective. These subjects are mandatory but may be taken in any of the final four sessions with the exception of Dissertation which is a prerequisite for Design Stage 7. Students are advised to enrol in Dissertation only in the session they intend to submit for assessment and not before.
# BSc (Arch) Course 3265: Schedule of Subjects

<table>
<thead>
<tr>
<th>No.</th>
<th>Subject Name</th>
<th>Credit Points</th>
<th>Prerequisites</th>
</tr>
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<tbody>
<tr>
<td>YEAR 1 (SESSIONS 1 &amp; 2)</td>
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<tr>
<td>11.6021</td>
<td>Architectural Computing 1(S2)</td>
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<tr>
<td>11.6301</td>
<td>Theory of Architecture 1</td>
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<td>History of Architecture 1</td>
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<td>11.6501</td>
<td>Architectural Construction 1</td>
<td>4</td>
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<td>11.6601</td>
<td>Architectural Structures 1</td>
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<td>11.6211</td>
<td>Communication Seminar 1</td>
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<td>11.6711</td>
<td>Environmental Control seminar 1</td>
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</table>

| YEAR 2 - (SESSION 1)                  |               |                            |                                 |
| 11.5914 | Special Research Programme 1       | 5             | Head of School’s approval      |
|        | Choice of B.Arch. subjects         | 2             | Head of School’s approval      |
|        | General Education Elective         | 2             | Nil                             |

| YEAR 2 - (SESSION 2)                  |               |                            |                                 |
| 11.5915 | Special Research Programme 2       | 5             | Head of School’s approval      |
|        | Choice of B.Arch. subjects         | 15            | Head of School’s approval      |
|        | General Education Elective         | 2             | Nil                             |

| YEAR 3 - (SESSION 1)                  |               |                            |                                 |
| 11.5916 | Special Research Programme 3       | 5             | Head of School’s approval      |
| 11.5912 | Research Methods                   | 2             | Head of School’s approval      |
|        | Choice of B.Arch. subjects         | 13            | Head of School’s approval      |
|        | General Education Elective         | 2             | Nil                             |

| YEAR 3 - (SESSION 2)                  |               |                            |                                 |
| 11.5917 | Research Project                   | 8             | Head of School’s approval      |
|        | Choice of B.Arch. subjects         | 12            | Head of School’s approval      |
|        | General Education Elective         | 2             | Nil                             |

| YEAR 4 - (SESSION 1) (Optional Honours year) | 11.5918 | Honours Project 1 | 22 | 131 credit points |
| YEAR 4 - (SESSION 2)                        | 11.5919 | Honours Project 2 | 22 | 11.5918 |

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
Mr Graham Levido

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:

- semesters 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).

Progression through the Course

Progress 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 6 months practical experience by appropriate employment in the building industry.

The proposal for employment must be submitted to the Head of the School of Building for approval prior to starting work 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

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
35.006 Construction 6
35.274 Commercial Arbitration

(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, subject to the completion of the following:

(a) 35.262 Management 3
35.273 Law for Builders 3
35.390 Property Valuation
35.391 Land Economics
35.392 Property Development
35.313 Building Economics 3

and

(b) submitted a thesis on a Land Economics subject.

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

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### Schedule of Subjects

#### Year 1 (All subjects compulsory)

**Semester 1**

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

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

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#### Year 2 (All subjects compulsory)

**Semester 3**

<table>
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<th>Course Code</th>
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<td>35.311</td>
<td>Building Economics 1</td>
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</table>

**Semester 4**

14.001 Introduction to Accounting A | 2 |              |
29.411 Surveying for Architects and Builders | 2 | |
35.003 Construction 3 (Framed Buildings) | 4 | 35.002, 35.151 |
35.052 Structures 2 | 4 | 35.051 |
35.262 Management 2 (Planning) | 3 | 35.261 |
35.281 Introduction to Computing | 2 |              |

**Semester 5**

35.004 Construction 4 (High Rise Buildings) | 4 | 35.003, 35.052 |
35.264 Management 4 (Personnel Management) | 3 | 35.263 |
35.272 Law for Builders 2 | 2 | 35.271 |
35.282 Computer Applications in Building | 2 | 35.281 |
35.302 Quantity Surveying 2 | 4 | 35.301 |

**Semester 6**

35.005 Construction 5 (Techniques) | 4 | 35.004 |
35.050 Sail Mechanics for Building | 2 | |
35.265 Management 5 (Project Management) | 3 | 35.264 |
35.312 Building Economics 2 | 3 | 14.002 |
35.321 Estimating 1 | 35.301 | General Education Elective |

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#### Year 3 (All subjects compulsory)

**Semester 7**

35.004 Construction 4 (High Rise Buildings) | 4 | 35.003, 35.052 |
35.264 Management 4 (Personnel Management) | 3 | 35.263 |
35.272 Law for Builders 2 | 2 | 35.271 |
35.282 Computer Applications in Building | 2 | 35.281 |
35.302 Quantity Surveying 2 | 4 | 35.301 |

**Semester 8**

35.005 Construction 5 (Techniques) | 4 | 35.004 |
35.050 Sail Mechanics for Building | 2 | |
35.265 Management 5 (Project Management) | 3 | 35.264 |
35.312 Building Economics 2 | 3 | 14.002 |
35.321 Estimating 1 | 35.301 | General Education Elective |

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**Year 4 (Thesis preparation and Thesis are compulsory. Students must also enrol in 35.410 Industry program to present their industrial experience documentation. Students must take a total of 20 elective credit points.)**
designer initially concentrates on establishing the concept as a marketable, producible, usable and socially responsible product; and subsequently details the human factors (ergonomics), appearance (style) and mode of operation. Frequently the designer becomes involved in the corporate image of companies and their products as well as the graphics of the product's packaging and the associated retail support systems.

The course prepares students for professional and executive employment in areas involving the research, design and development of new manufactured products. Whilst it is anticipated that most graduates will be initially employed in an industrial design capacity either in manufacturing companies or consultancies, it is likely that some graduates may subsequently choose to specialise in aspects of marketing, engineering, product management or design management.

### Industrial Design Degree Course

**Bachelor of Industrial Design (BIndDes)**

The course is offered predominantly on a semester basis. Students are required to complete a minimum of eight semesters (sessions) including at least three months of industrial experience, taken either during the academic recesses or upon the completion of the academic part of the course, but in units of not less than one month.

Industrial design and ergonomics subjects make up approximately half the subjects and are taken within the Department. The industrial design studio work emphasises the need to find a balance between the requirements of design, ergonomics, marketing, engineering and production. Social and environmental issues as well as the professional and ethical responsibilities of the designer are also emphasised.

Approximately 20 percent of subjects are taken within the Faculty of Commerce and 25 percent within the fields of science and engineering. The General Education Program comprises 7 percent of the course.

The industrial design subjects link their subject material to certain of the material covered in engineering and marketing subjects. In addition, a link subject (Product Studies Seminar), is given involving industrial design, engineering, production, and marketing disciplines in which product case studies are given and analysed.

Student progression may be subject to review by the Head of Department. If a student fails the industrial design studio subject of a particular stage, he/she would not normally be permitted to take any of the subjects in the next stage until that subject had been satisfactorily repeated.

### Co-op education mode

The course is operated in a co-op mode. Selected industrial and commercial companies will have the opportunity to provide practical experience and recess employment to selected students or alternatively to offer scholarships, in which case students will work for the companies in certain of the recesses without additional remuneration. Companies will also be involved in providing briefings, consultations, and evaluations for studio project work.
Three months approved practical experience are a requirement of the course.

Honours
The Bachelor of Industrial Design degree may be awarded with Honours based upon the quality of performance in the course. Honours are Class 1 or Class 2 Division 1 or Class 2 Division 2.

Professional Recognition
The Department will be seeking recognition of the course by the Design Institute of Australia for the eligibility of students enrolled in the course to become student members of the Institute and Licentiates automatically upon graduation.

Schedule of Subjects
Credit points generally indicate the numbers of hours per week of student/staff contact for one session.

Students who have not taken physics or science at HSC level, are recommended to take the relevant Unisearch bridging courses, after consultation with the Head of Department.

It should be noted that there will be some variation of order of subjects, as some subjects may, from time to time, not be available in a particular session. The course averages 22 hours per week over the four years and when finalising timetables for any particular year every attempt will be made to keep close to the average number of hours per week, and to the program outlined in this schedule.

Prerequisite
Mathematics

either 2-unit Mathematics HSC score range 60-100,
or 3-unit Mathematics HSC score range 1-50,
or 4-unit Mathematics HSC score range 1-100

Note: The 2-unit Mathematics subject cannot be the Mathematics in Society subject.

3385
Industrial Design
Bachelor of Industrial Design,
BIndDes

Year 1
Session 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hrs. pw</th>
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<tbody>
<tr>
<td>39.311</td>
<td>Basic Design</td>
<td>4</td>
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<tr>
<td>39.313</td>
<td>Visual Thinking &amp; Drawing</td>
<td>4</td>
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<td>39.316</td>
<td>History of Art, Architecture &amp; Design</td>
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<tr>
<td>39.317</td>
<td>Principles of Ergonomics</td>
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<tr>
<td>10.021B</td>
<td>General Mathematics 1B</td>
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<td>GEP</td>
<td>General Education Program</td>
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Year 1
Session 2

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<tr>
<td>39.312</td>
<td>Design Studio 1</td>
<td>4</td>
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<tr>
<td>39.314</td>
<td>Geometrical &amp; Mechanical Drawing</td>
<td>4</td>
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<td>10.021C</td>
<td>General Mathematics 1C</td>
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<td>1.931</td>
<td>Physics</td>
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<td>39.421</td>
<td>Engineering Design Mechanics</td>
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Year 2
Session 1

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<tr>
<td>39.327</td>
<td>Design Methodology</td>
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<td>39.323</td>
<td>Perspective &amp; Rendering Techniques</td>
<td>4</td>
</tr>
<tr>
<td>39.321</td>
<td>Industrial Design Studio 2</td>
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</tr>
<tr>
<td>39.315</td>
<td>Introduction to Computing</td>
<td>3</td>
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<tr>
<td>39.427</td>
<td>Introduction to Materials Science</td>
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</tr>
<tr>
<td>39.423</td>
<td>Mechanics of Solids for Industrial Design</td>
<td>3</td>
</tr>
<tr>
<td>39.328</td>
<td>Product Studies Seminar</td>
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</tr>
<tr>
<td>10.301</td>
<td>Statistics SA</td>
<td>2</td>
</tr>
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<td>14.501</td>
<td>Accounting &amp; Financial Management 1A</td>
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Year 2
Session 2

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<tbody>
<tr>
<td>39.321</td>
<td>Industrial Design Studio 2</td>
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</tr>
<tr>
<td>39.324</td>
<td>Computer Aided Design</td>
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<td>39.328</td>
<td>Product Studies Seminar</td>
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<tr>
<td>14.511</td>
<td>Accounting &amp; Financial Management 1B (or equivalent special subject)</td>
<td>4.5</td>
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<tr>
<td>10.301</td>
<td>Statistics SA</td>
<td>2</td>
</tr>
<tr>
<td>39.329</td>
<td>Applied Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>GEP</td>
<td>General Education Program</td>
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Year 3
Session 1

<table>
<thead>
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<th>Course Title</th>
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<tbody>
<tr>
<td>39.427</td>
<td>Materials &amp; Manufacturing Processes for Industrial Design, B</td>
<td>3</td>
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<tr>
<td>39.424</td>
<td>Principles of Electrical Engineering for Industrial Design</td>
<td>2</td>
</tr>
<tr>
<td>39.331</td>
<td>Industrial Design Studio 3</td>
<td>5</td>
</tr>
<tr>
<td>39.333</td>
<td>Computer Graphic Applications</td>
<td>4</td>
</tr>
<tr>
<td>28.012</td>
<td>Marketing Systems</td>
<td>4</td>
</tr>
<tr>
<td>28.032</td>
<td>Consumer Behaviour A</td>
<td>4</td>
</tr>
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<td>Product Studies Seminar</td>
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Year 3
Session 2

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<thead>
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<tbody>
<tr>
<td>39.331</td>
<td>Industrial Design Studio 3</td>
<td>5</td>
</tr>
<tr>
<td>28.052</td>
<td>Marketing Research</td>
<td>4</td>
</tr>
<tr>
<td>28.042</td>
<td>Consumer Behaviour B</td>
<td>4</td>
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<tr>
<td>39.425</td>
<td>Electrical Engineering applications in Industrial Design</td>
<td>2</td>
</tr>
<tr>
<td>39.432</td>
<td>Production Design &amp; Technology for Industrial Design</td>
<td>2</td>
</tr>
<tr>
<td>39.326</td>
<td>Form Theory</td>
<td>1</td>
</tr>
<tr>
<td>39.334</td>
<td>Photography</td>
<td>2</td>
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<td>Product Studies Seminar</td>
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Year 4
Session 1

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Hrs. pw</th>
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<tbody>
<tr>
<td>39.341</td>
<td>Industrial Design Studio 4</td>
<td>5</td>
</tr>
<tr>
<td>39.342</td>
<td>Project Research</td>
<td>4</td>
</tr>
<tr>
<td>28.073</td>
<td>Strategic Marketing</td>
<td>4</td>
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<tr>
<td>39.328</td>
<td>Product Studies Seminar</td>
<td>0.3</td>
</tr>
<tr>
<td>39.322</td>
<td>Graphic Design for Industrial Designers</td>
<td>3</td>
</tr>
<tr>
<td>39.332</td>
<td>Environmental &amp; Interior Design for Industrial Designers</td>
<td>2</td>
</tr>
<tr>
<td>GEP</td>
<td>General Education Program</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>23.3</strong></td>
</tr>
</tbody>
</table>

20
The majority of subjects are specific; however, contact with the environment. 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.

3380 Landscape Architecture Course

Bachelor of Landscape Architecture

BLArch

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

A student may be enrolled concurrently in courses 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>
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<tbody>
<tr>
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</tr>
<tr>
<td><strong>Year 1</strong></td>
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<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>2</td>
<td>nil</td>
</tr>
<tr>
<td>37.0014</td>
<td>Introduction to Computer Applications</td>
<td>2</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 Architecture</td>
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<td>nil</td>
</tr>
<tr>
<td>43.202</td>
<td>Botany for Landscape Architects</td>
<td>5</td>
<td>nil</td>
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<tr>
<td>37.7203</td>
<td>Landscape Materials and Construction</td>
<td>3</td>
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</tr>
<tr>
<td>37.3202</td>
<td>Landscape Graphics 2 Design</td>
<td>4</td>
<td>37.5101, 37.3101</td>
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<tr>
<td>37.5202</td>
<td>Design 2</td>
<td>3</td>
<td>37.5101, 37.3101</td>
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<td></td>
<td>General Education Elective</td>
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</tr>
<tr>
<td><strong>Session 2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37.1112</td>
<td>Horticulture for Landscape Architects</td>
<td>2</td>
<td>43.202</td>
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<tr>
<td>37.1302</td>
<td>Landscape Analysis*</td>
<td>6</td>
<td>27.818, 37.3101, 43.202, 25.5222</td>
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<tr>
<td>37.7203</td>
<td>Landscape Materials and Construction</td>
<td>3</td>
<td>nil</td>
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<tr>
<td>37.3202</td>
<td>Landscape Graphics 2 Design</td>
<td>4</td>
<td>37.3101</td>
</tr>
<tr>
<td>37.5202</td>
<td>Design 2</td>
<td>3</td>
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<td></td>
<td>General Education Elective</td>
<td>2</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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</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             | 37.3203, 37.5202, 37.1302, 37.7203 |
| 37.7204 | Landscape Technology A                    | 3              | 37.7203                       |
|         | General Education Elective                | 2              |                               |
| **Session 2** |                                             |                |                               |
| 37.5014 | Planting Design                           | 2              | 37.1102, 37.5313             |
| 37.5414 | Landscape Design 2                        | 12             | 37.5313                       |
| 37.7205 | Landscape Technology B                    | 3              | 37.7204                       |
|         | General Education Elective                | 2              |                               |
| **Year 3** |                                             |                |                               |
| **Session 1** |                                             |                |                               |
| 36.411 | Town Planning                             | 2              | nil                           |
| 37.3005 | Research Methods                          | 1              | nil                           |
| 37.5505 | Landscape Design 3                        | 8              | 37.5414, 37.1513, 37.7205    |
| 37.7113 | Professional Practice A                   | 2              | 37.5414, 37.7205             |

## School of Town Planning

**Head of School**
Professor H. L. Westerman

**Town Planning Degree Course BTP**

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

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

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

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

Practical Experience

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

Professional Recognition

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

3360 Town Planning Course

Bachelor of Town Planning

BTP

Schedule of Subjects

Note: One or more major planning subjects are shown in each session in bold type. Each of these subjects must be passed before a student may progress to the next year's major planning subjects.
### Architecture

**Year 5**

**Session 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>36.219</td>
<td>Regional Planning 2</td>
<td>6</td>
</tr>
<tr>
<td>36.223</td>
<td>Computer Applications in Planning 1</td>
<td>2</td>
</tr>
<tr>
<td>36.491</td>
<td>Thesis</td>
<td>1</td>
</tr>
<tr>
<td>36.422</td>
<td>Integrated Planning Project 2</td>
<td>12</td>
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**Session 2**

<table>
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<th>Credits</th>
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<tr>
<td>36.491</td>
<td>Thesis</td>
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<tr>
<td>36.210</td>
<td>Professional Practice</td>
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<tr>
<td>36.8300</td>
<td>Planning Elective</td>
<td>4</td>
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* The following planning electives are offered subject to demand and availability.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>36.8301</td>
<td>Residential Planning</td>
<td>4</td>
</tr>
<tr>
<td>36.8303</td>
<td>Regional Planning 3</td>
<td>4</td>
</tr>
<tr>
<td>36.8304</td>
<td>Rural Planning</td>
<td>4</td>
</tr>
<tr>
<td>36.8305</td>
<td>Urban Conservation</td>
<td>4</td>
</tr>
<tr>
<td>36.8306</td>
<td>Planning Law and Administration 3</td>
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</tr>
<tr>
<td>36.8307</td>
<td>Urban Studies</td>
<td>4</td>
</tr>
<tr>
<td>36.8308</td>
<td>Social Planning</td>
<td>4</td>
</tr>
<tr>
<td>36.8309</td>
<td>Environmental Psychology</td>
<td>4</td>
</tr>
<tr>
<td>36.8312</td>
<td>Transport and Environmental Management</td>
<td>4</td>
</tr>
<tr>
<td>36.8313</td>
<td>Urban Design 2</td>
<td>4</td>
</tr>
<tr>
<td>36.8314</td>
<td>Computer Applications in Planning 2</td>
<td>4</td>
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</tbody>
</table>

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

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>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Subjects also offered for courses in this handbook</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>1 School of Physics</th>
<th>Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 School of Chemistry</td>
<td>Science</td>
</tr>
<tr>
<td>3 School of Chemical Engineering and Industrial Chemistry (New Course)</td>
<td>Applied Science</td>
</tr>
<tr>
<td>4 School of Materials Science and Engineering</td>
<td>Applied Science</td>
</tr>
<tr>
<td>5 School of Applied Bioscience (Biotechnology)</td>
<td>Biological Science and Technology</td>
</tr>
<tr>
<td>6 School of Chemical Engineering and Computer Science</td>
<td>Applied Science</td>
</tr>
<tr>
<td>7 School of Mines (Mineral Processing and Extractive Metallurgy)</td>
<td>Applied Science</td>
</tr>
<tr>
<td>8 School of Civil Engineering</td>
<td>Applied Science</td>
</tr>
<tr>
<td>9 School of Fibre Science and Technology (Wool and Animal Science)</td>
<td>Applied Science</td>
</tr>
<tr>
<td>10 School of Mathematics</td>
<td>Science</td>
</tr>
<tr>
<td>11 School of Architecture</td>
<td>Architecture</td>
</tr>
<tr>
<td>12 School of Psychology</td>
<td>Biological and Behavioural Sciences</td>
</tr>
<tr>
<td>13 School of Fibre Science and Technology (Textile Technology)</td>
<td>Applied Science</td>
</tr>
<tr>
<td>14 School of Accounting</td>
<td>Commerce &amp; Economics</td>
</tr>
<tr>
<td>15 School of Economics</td>
<td>Commerce &amp; Economics</td>
</tr>
<tr>
<td>16 School of Health Administration</td>
<td>Professional Studies</td>
</tr>
<tr>
<td>17 School of Mechanical and Industrial Engineering (Industrial Engineering)</td>
<td>Applied Science</td>
</tr>
<tr>
<td>18 School of Information Systems</td>
<td>Commerce &amp; Economics</td>
</tr>
<tr>
<td>19 Department of Industrial Arts</td>
<td>Applied Science</td>
</tr>
<tr>
<td>20 Centre for Petroleum Engineering Studies</td>
<td>Architecture</td>
</tr>
<tr>
<td>21 School of Mines (Applied Geology)</td>
<td>Applied Science</td>
</tr>
<tr>
<td>22 School of Geology</td>
<td>Applied Science</td>
</tr>
<tr>
<td>23 School of Marketing</td>
<td>Applied Science</td>
</tr>
<tr>
<td>24 School of Surveying</td>
<td>Applied Science</td>
</tr>
<tr>
<td>25 School of Industrial Relations and Organizational Behaviour</td>
<td>Applied Science</td>
</tr>
<tr>
<td>26 School of Optometry</td>
<td>Science</td>
</tr>
<tr>
<td>27 Centre for Biomedical Engineering</td>
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Architecture

Architectural Design Studio

Architectural synthesis is the central function of the design studio, the focus of the application of knowledge gained in the lectures and seminars. The vehicles for study are projects and exercises of increasing depth and complexity covering a wide range of building types. Students are encouraged to seek design solutions which cater for the full range of human needs and aspirations. The studios provide continuing opportunities to consider environmental, social, historic, aesthetic, technical and professional factors affecting architecture and the architect's role in the community.

11.6101 Design Studio 1  C8
Prerequisites: Nil
Analysis of the natural and built environment to develop an awareness of physical environment and the forces determining built form. An understanding of man's functions, activities and aspirations and of the architect's essentially creative and conceptual role.
Introductory studio focusing on the application of design method through simple three dimensional design exercises culminating in the design of simple, small-scale buildings and an understanding of the parameters of design.

11.6102 Design Studio 2  C10
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 sites requiring basic contextual understanding. Integration of basic structural, constructional, servicing and environmental control concepts. The development of design method.

11.6103 Design Studio 3  C10
The design of non-residential projects of moderate complexity and scale with more demanding siting and contextual consideration and more complex and less familiar user needs including some adaptive re-use.
Further emphasis on design method. Development of structure, construction, services, environmental control, building regulations and landscape design. Some group work, but largely individual work.

11.6104 Design Studio 4  C8
The design of small-scale buildings in considerable depth including detailed design of internal and external spaces including material and colour choices, fixtures and fittings, construction detailing, services and environmental control.
To achieve this, they will receive information and practice in the following: drafting and drawing skills, with instruments and software: staged tutorial exercises and self-directed hands-on computer exercises to consolidate the knowledge gained in the lectures.

11.6201 Architectural Computing 1 C2
Prerequisite: Nil
An introduction to the technology of computing as it pertains to the practice of Architecture and Design. The computer is presented as a tool for storing and manipulating information by means of application programs which model the real-world needs and activities of architects. Typical applications explored include word processing, spreadsheet modelling and database management. Basic principles of technology and programming are explained. Students engage in hands-on computer exercises to consolidate the knowledge gained in the lectures.

11.6205 Architectural Computing 2 C2
Prerequisite: 11.6201.
Introduction to the techniques and processes of computer-aided drafting for the production of architectural drawings. Hands-on experience with PC-based CADD software: staged tutorial exercises and self-directed documentation tasks.

11.6211 Communication Seminar 1 C6
Prerequisite: Nil.
By the end of first year, students will be expected to present their final design project by means of the following: a set of presentation drawings, rendered in colour - orthographics, axonometric or isometric, perspective and simple construction drawings as required to explain the project fully. A model, written statement of intent and a verbal presentation to a jury will also be required.
To achieve this, they will receive information and practice in the following: drafting and drawing skills, with instruments and freehand, orthographic projection, axonometric, isometric, perspective, colour theory, rendering techniques, variety of media, model making, library use, study and research skills, scholarly writing, report and letter writing and oral presentation.

11.6212 Communication Seminar 2 C4
Prerequisites: 11.6105, 11.6115, 11.6515.
Understanding of the role of the architect when engaged by a developer. Preparation of a timetable, submissions and reports for a developer client for design project in Design Studio 6.

11.6117 Design Seminar 4 C2
Prerequisites: 11.6106, 11.6116, 11.6516, 11.6906.
Development and presentation of the theoretical basis of the students own design work in Design Studio 7.

Architectural Communication

Objectives: To develop skills in oral, written and graphic communication; to introduce students to experimentation with materials and techniques in the context of current architectural thinking, and to expose them to new or less well known techniques and media. To that end, the first year of the course is geared to the development of skills and the later years to more experimental work.

11.6213 Communication Seminar 3 C4
To experiment with a range of dry techniques for presentation. Elementary exercises in two and three dimensional composition in combination with advanced colour theory studies. Architectural model making using various techniques. Observational drawing exercises. Library use, study and research skills.
Use of the computer for simple three-dimensional modelling of building form: form analysis; massing; visualization and perspective. Hands-on tutorial exercises linked to Studio design work. (1 cp segment of whole.)

11.6301 Theory of Architecture 1 C2
Prerequisite: Nil.
The meaning of design as designation for a purpose: aim, possibilities, acts, fulfilment, the four cornerstones of design around the central idea. 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 human body taken in the singular and in the plural, as the basis of sizes in architectural interiors and exteriors. Subtle connotatons of varied spatial extensions.
Introductory studies in compositions in plane and volume. Ordered and systematic relations between whole and part. Unity multiplicity, continuity - alternation, rhythm, proportion.
11.6302 Theory of Architecture 2

Prerequisite: 11.6301.

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 patterns of behaviour. Detailed consideration of 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.

11.6303 Theory of Architecture 3

Prerequisite: 11.6302.

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. 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.

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 geometric symbols.

11.6311 Theory Seminar 1

Prerequisite: Nil.

Exercises in the application of 11.6301 Theory of Architecture 1 related to projects in Design Studio 1.

11.6312 Theory Seminar 2


Exercises in the application of 11.6302 Theory of Architecture 2 related to projects in Design Studio 2.

11.6313 Theory Seminar 3


Exercises in the application of 11.6310 Architectural Theory 3 related to projects in Design Studio 3.

History of Architecture

Objective: To provide an overview of the historical 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.

11.6401 History of Architecture 1

Prerequisite: Nil.

Discussion of historical buildings and texts and the tools of the architectural historian, ie formal analyses of buildings, the use of manifestos and texts, and historiographical conventions.

General chronological exploration of selected buildings and architectural practices with emphasis on the range of influences on architecture, eg, cultural institutions and power structures; other arts such as music, painting, theatre; technology and material developments; models of urbanity; history of ideas in architecture.

Discussion and analysis of past definitions of history and architecture examining issues regarding taste, morality, style, continuity and an examination of many of the ideologies and attitudes arising from modernism.

11.6402 History of Architecture 2

Prerequisite: 11.6401.

A selection of theme units which broach both the conceptual structures and theoretical borders of architecture. Themes for this subject will include Aspects of Classicism; Romantic Classicism and the Picturesque; Craft Traditions and the Vernacular; Rituals in Urban Settlement; Historiography.

11.6403 History of Architecture 3

Prerequisite: 11.6402.

Extends the range of theme units initiated in History of Architecture 2, including the following: Modernity and Modernism; Australia and the Architecture of Western Imperialism; National and Regional Images in Australian Architecture; Power Structures and Popular Culture as Architectonic Forces in The City; Readings on Modern and Post-Modern Imagery.

Architectural Construction

Objective: To develop breadth and depth in the understanding of the basic rationale governing the construction of buildings. Emphasis is placed upon design decisions which lead firstly to the selection of appropriate constructional systems and then to careful detail design. The theoretical field is mapped in the lecture series with complimentary exercises in practical application pursued in seminars, generally linked to studio projects. Progression is made from the study of the more familiar and small scale building types to that of larger scale buildings of a more complex technological nature.
11.6501 Architectural Construction 1  C4
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. Introduction to construction drawing practice and use of resource materials.

11.6502 Architectural Construction 2  C4
Prerequisite: 11.6501.
The principles of architectural construction applied to the design of buildings of moderate scale and complexity through a detailed analysis of common constructional systems, their elements, components, assembly methods, detailing, construction processes and regulatory controls. Suitability, application and performance of principal construction materials including timber, masonry, steel and concrete. Durability, movement and moisture control. Resource materials, dimensional co-ordination and construction drawing practice.

11.6503 Architectural Construction 3  C4
Prerequisite: 11.6502.
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, regulatory controls, fire safety and protection. Rationalised systems, prefabrication, modular co-ordination and construction documentation.

11.6511 Construction Seminar 1  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 related where possible to Design Studio 1 communication and design projects.

11.6512 Construction Seminar 2  C3
Exercises in the practical application of the principles of architectural construction to the design of small scale buildings. Emphasis on common constructional systems using timber, masonry, steel and concrete, resource and reference information, dimensional coordination and construction drawing practice related where possible to Design Studio 2 design projects.

11.6513 Construction Seminar 3  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 Design Studio 3 design projects.

11.6514 Technology Seminar 1  C2
Studies in the selection and application of structural and constructional systems, building materials and processes appropriate to Design Studio 4 design projects. Aspects of climate, thermal, lighting or acoustics will be incorporated into the seminar program, appropriate to the current studio topics.

11.6515 Technology Seminar 2  C2
Prerequisite: 11.6104, 11.6114, 11.6514, 11.6904.
Studies in the selection and application of structural and constructional systems, building materials and processes appropriate to Design Studio 5 design projects. Aspects of climate, thermal, lighting or acoustics will be incorporated into the seminar program, appropriate to the current studio topics.

11.6516 Technology Seminar 3  C2
Prerequisite: 11.6105, 11.6115, 11.6515.
Studies in the selection and application of structural and constructional systems, building materials and processes appropriate to Design Studio 6 design projects. Aspects of climate, thermal, lighting or acoustics will be incorporated into the seminar program, appropriate to the current studio topics.

11.6517 Technology Seminar 4  C2
Prerequisites: 11.6106, 11.6116, 11.6516, 11.6906.
Studies in the selection and application of structural and constructional systems, building materials and processes appropriate to the Design Studio 7 design project. Aspects of climate, thermal, lighting or acoustics will be incorporated into the seminar program, appropriate to the current studio topics.

Architectural Structures

Objective: To understand basic forces and the means of resisting them, to know the main structural systems used in buildings, to understand the relation of structure to architectural form as a basis for creative collaboration with structural consultants.
11.6601 Architectural Structures 1
Prerequisite: Nil.
General introduction to structures, their development and their role; natural and man-made structures.
Basic structural concepts; load, force, flow of force (loadpath); graphical and mathematical resolution of forces, equilibrium; moment (overturning); stability (element, assembly), strength and stiffness, supports and connections; types of loads; stress (tension, compression, shear, bending, torsion), strain, modulus of elasticity.
Basic structural elements and assemblies: cable and arch, strut and column, beam, truss, frame, grid, plate/slab, vault and dome, tent and pneumatic.
Elemental structural behaviour applied to the above: load application, loadpaths, connections, reactions at supports/connections, internal forces (stresses).
Graphical techniques and models as means for structural behaviour studies.

11.6602 Architectural Structures 2
Prerequisite: 11.6601.
The structural design and analysis process: definition of the structural task in relation to an architectural concept, system options and choice, establishment of loads and loadpaths (stability concept), estimation of loads, structural safety concept; satisfying equilibrium requirements; establishment of external and internal forces; sizing of elements.
Selective study of structural behaviour and application of the structural design and analysis process to simple structural assemblies (post/beam, frame, cable-stayed systems, truss, grid, plate/slab etc.) Graphic techniques and models as means for structural behaviour studies.

11.6603 Architectural Structures 3
Prerequisite: 11.6602.
Constructional aspects of structures; structural design related to materials (timber, steel, concrete and composites), foundations, connections and joints.
The morphology of structures, structural shape, structural systems; efficiency (the "lightweight" concept), structural systems for wide-spanning and high-rise structures, selective studies of structural behaviour.

11.6611 Structures Seminar 1
Prerequisite: Nil.
Exercises aimed at developing an understanding of basic structural concepts and the fundamental behaviour of structural elements, related where appropriate to Design Studio 1 design projects.

11.6612 Structures Seminar 2
Exercises in the behaviour, selection, analysis and design of simple structural assemblages, related where appropriate to Design Studio 2 design projects.

11.6613 Structures Seminar 3
Exercises in the constructional aspects of structures, with particular emphasis on the characteristics of current and evolving structural systems, related where appropriate to Design Studio 3 design projects.

Environmental Control

Objective: To present to students the theory in thermal behaviour, daylight, electric lighting, acoustics and air quality of buildings and the services to buildings in the context of contemporary building design. To present the principles of energy conservation and environmental impact to enable students to develop appropriate design strategies.

11.6701 Environmental Control 1
Prerequisite: Nil.
Human response to the environment, thermal, visual and acoustic comfort and air quality. Climate and the sunlitgning and daylighting of buildings. Subjective and objective assessments of aural, visual and thermal environments and their integration. Laboratory work and field studies.

11.6702 Environmental Control 2
Prerequisite: 11.6701.
Thermal evaluation design tools, correlation and simulation models, degree day concept, the control of sunlight. Quantitative and qualitative aspects of lighting design, electric light sources, light control and prediction methods. Design of rooms, basic shape and volume, acceptable ambient sound levels, structure borne and impact sound, reverberation times, selection of interior building materials and elements.
Thermal mass and its effects, air movement and ventilation, introduction to solar passive design and case studies. Integration of daylight with electric light, lighting for energy conservation, application and evaluation of light in interiors, case and field studies. Buildings for education, music and places of assembly. Integration of thermal, lighting and acoustic design implications.

11.6703 Environmental Control 3
Prerequisite: 11.6702.
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.

**11.6711 Environmental Control Seminar 1**

*Prerequisites: Nil.*

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 Design Studio 1.

**11.6712 Environmental Control Seminar 2**


Lighting, acoustics and thermal design linked where appropriate to design projects in Design Studio 2.

**11.6713 Environmental Control Seminar 3**

*Prerequisites: 11.6102, 11.6502, 11.6602, 11.6702, four from 11.6212, 11.6312, 11.6512, 11.6612, 11.6712.*

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.

**Architectural Practice**

Objective: To introduce aspects of professional ethics, management and administration and to develop communication skills relevant to architectural practice.

**11.6804 Architectural Practice 1**

*Prerequisite: 11.6103.*


**11.6806 Architectural Practice 2**

*Prerequisite: 11.6804.*


**11.6807 Architectural Practice 3**

*Prerequisite: 11.6806.*


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.

**Other Required Studies**

**11.6904 Practical Experience**

*Prerequisite: 11.6103.*

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.

**11.6906 Dissertation**

*Prerequisite: 11.6103.*

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. Introductory lectures will be given in the processes and methods of research, writing and referencing for publication of academic works.

Students may prepare material over more than one session but should enrol in the subject only in the session in which they intend to submit for assessment. This will avoid the risk of paying extra fees. Students should note that Dissertation is a prerequisite for Design Stage 7.

**11.6907 Major Research Project**

*Prerequisite: By Invitation*

Under supervision of an individual member of staff, with a supportive package of Electives (C8) which are closely related to and form part of the final submission. Students who are invited to take this subject may be exempt from Dissertation and permitted to make up credit points by taking appropriate electives.

The scope and format of this project will have been agreed between the student, his/her supervisor and the School Committee set up to oversee these projects at the start of Year 5 Session 1. Much of the preliminary information gathering will have been done in the seminars and architectural research project during Year 5 Session 2.

The end result of this project will be a research project of extremely high quality in a discipline related to the study of Architecture and of particular interest to the student.

**11.5912 Research Methods**

*(For BSc(Arch) only)*

*Prerequisite: 11.5915*

The processes and methods of research, writing and referencing for publication of academic works.
Undergraduate Study: Subject Descriptions

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)
Prerequisites: 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)
Prerequisites: 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
(For BSc(Arch) only)
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
(For BSc(Arch) only)
Prerequisite: 132 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 sessions 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
(For BSc(Arch) only)
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 sessions 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.

Electives

11.5220 Computer Graphics Programming 1 C2
Prerequisite: 11.6103.
Introduction to the fundamentals of interactive computer graphics programming; techniques of computer programming utilising a high-level language; use of standard graphics library functions; PC graphics; user interaction techniques. Controlled series of programming exercises.

11.5221 Computer Graphics Programming 2 C4
Prerequisite: 11.5220.
Advanced techniques of interactive computer graphics, programming; graphic techniques for user input; menu-based interfaces; colour manipulation; three-dimensional modelling. Design and development of an interactive computer graphics application program.

11.5222 Computer Applications 1 C4
Prerequisite: 11.6103.
A 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 2 C2
Prerequisite: 11.6103.
The application of three-dimensional computer graphics techniques to represent built form in Architecture; form description; colour shading techniques, use of multiple light sources; modelling surface textures. Design modelling exercises.

11.5227 Advanced Graphics C2
Prerequisite: 11.6103.
A theoretical and practical study of the relationship between the visual and the plastic arts. Development of a professional level of performance in adapting graphic theory and techniques to contemporary needs.
11.5228 Drawing C2
Prerequisite: 11.6103.
Direct drawing from life and man-made environment to develop technical and perception skills, media studies, gallery visits and drawing theory.

11.5229 Painting C2
Prerequisite: 11.6103.
The theory and practice of painting. Figure and ground interaction, colour and media studies. Individual style and thematic development encouraged. Gallery visits.

11.5230 Pottery and Ceramics C2
Prerequisite: 11.6103.
Introduction to the geology of ceramic raw materials and their physical and chemical nature. The characteristics of earthenware, stoneware, and porcelain. Glazes, kilns and forming methods. Laboratory and studio; handbuilding, introductory throwing and design in pottery and ceramics.

11.5231 Rendering C2
Prerequisite: 11.6103.
Advanced architectural rendering.

11.5320 Theory of Form C2
Prerequisite: 11.6103.
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 C2
Prerequisite: 11.6103.
The nature, function and value of criticism. Subjective and objective criticism. A short history of architectural criticism, architectural critics, past and present. Discrimination and values in a changing society; fashion, the influence of mass opinion, communication media, advertising, propaganda. Collection of data; establishment and application of critical criteria; effective communication of conclusions; recommendations and feedback. The use of criticism and evaluation during and after the design process. Practical evaluation of examples of architectural criticism, past and present. Criticism of contemporary buildings and projects. Criticism of current work by self and others.

11.5322 Imagination C2
Prerequisite: 11.6103.
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: 11.6103.
Spatial symbolism and intellectual intuition, principles, and methods of sacred architecture. Spiritual doctrine reflected in the layout of Judao-Christian architecture with reference to the Architecture of sacred traditions. Seminars and practical projects focus on selected case studies.

11.5420 Building Conservation C2
Prerequisite: 11.6103.
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, adaption for re-use; and repair. Preparation of conservation proposals and plans.

11.5421 Recent Australian Architects C2
Prerequisite: 11.6103.
Detailed study of the theories and work of selected Australian architects.

11.5422 Great Architects C2
Prerequisite: 11.6103.
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 The City-Sydney C2
Prerequisite: 11.6103.
Studies of the social and technological systems that determine the form of contemporary cities. Government systems and controls, land and development economics, land use, transport, services. Sydney as a case study.

11.5520 Advanced Building Materials 1 C2
Prerequisite: 11.6103.
Classification of materials. Ceramic materials; the nature of cements, concrete, glass bonded ceramics and glass. Building products and techniques using these materials and their implications including construction, maintenance and deterioration. Industrial visits and laboratory.
11.5521 Advanced Construction Systems C2
Prerequisite: 11.6103.
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: 11.6103.
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 co-ordination of the building process. Building economics and cost planning, case studies, reports, seminars.

11.5523 Advanced Building Materials 2 C2
Prerequisite: 11.6103.
Organic materials; the nature of wood and synthetic polymers. Building products and techniques using these materials and their implications including construction, maintenance and deterioration. Industrial visits and laboratory.

11.5524 Advanced Building Materials 3 C2
Prerequisite: 11.6103.
Metals, ferrous and non-ferrous, their nature and use. Building products and techniques using these materials and their implications including construction, maintenance and deterioration. Industrial visits and laboratory.

11.5620 Conceptual Structural Design C4
Prerequisite: 11.6103, 11.6503, 11.6603.
Choice of systems and their behaviour; scale, structural shape as a visual element in architectural design; conceptual design methods and structural shape-finding and shape-determination methods using analytical, model and computer methods. Model and computer laboratory exercises and project.

11.5621 Advanced Structural Design C4
Prerequisite: 11.5620.
The behaviour and analysis of indeterminate structures. Computational techniques for indeterminate and other complex structural systems. Structural CAD applications. Architectural/structural design issues: envelope - structure interaction, structural detailing and structural expression; dynamic loads; new materials and systems; assembly and erection techniques etc.

11.5622 Lightweight Structural Design C4
Prerequisite: 11.6503, 11.6603, 11.6104.

11.5720 Design for Energy Efficiency C2
Prerequisite: 11.6103.
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 C2
Prerequisite: 11.6103.
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 C2
Prerequisite: 11.6103.
Experimental investigation and research in a selected aspect of acoustics. Laboratory and field work, methodology of results, development of techniques of application. Laboratory work.

11.5820 Building Economics & Development C2
Prerequisite: 11.6103.
1. The Economy: structure of the economy. History and development of modern economics. 2. Investment investigation in buildings, property (public and private), large scale, small scale. 3. Valuation; statutory valuations, market value, unimproved and improved land depreciation and obsolescence, valuation of improvements, valuation law, land laws. 4. Feasibility; economic models, optimisation, feasibility studies on small-, medium-, large-scale development and subdivisions. 5. Rationalised Building; dimensional control, component technology, building systems, cost planning. 6. Seminars.

11.5821 Project Management C2
Prerequisite: 11.6103.

11.5822 The Architect and the Law C2
Prerequisite: 11.6103.
Architecture

11.5920 Architectural Research 1 C4
Prerequisite: 11.6103.
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 2 C4
Prerequisite: 11.6103.
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 3 C4
Prerequisite: 11.6103.
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.

Building

Construction Stream

29.411 Surveying for Architects and Builders S3 LT5
Compulsory. Prerequisite: Nil.

35.001 Construction 1 (Domestic Buildings) S1 LT3
Compulsory. Prerequisite: Nil.
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. Prerequisites: 35.002, 35.151.
Functional requirements and methods of constructing framed buildings: study of structural steel and concrete frames; large span factory roof, 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. Prerequisites: 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, 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 L2
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 insitu 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  S2 LT3
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  S3 LT4
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  S1 LT2
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  S7 LT2
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  S2 LT4
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)  S1 LT4
Compulsory. Prerequisite: Nil.
35.112 Building Science 2
(Concrete and Metals) S4 LT4
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) S7 LT3
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) S8 LT2
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) S2 LT2
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) S4 LT2
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 S1 LT4
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) S1 LT2
Compulsory. Prerequisite: Nil.

35.262 Management 2 (Planning) S3 LT3
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) S4 LT3
Compulsory. Prerequisite: 35.262.

35.264 Management 4
(Personnel Management) S5 LT3
Compulsory. Prerequisite: 35.263.
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) S6 LT3
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) S7 LT2
Elective. Prerequisite: 35.265.
Corporate strategy and the overall general management of an enterprise in the building and development industry, derivation of policy by top management together with planning.
of policy implementation; tax planning. There is an integration and application of knowledge acquired in previous and concurrent courses. By using case studies students appraise the present position and future prospects of enterprises in the building industry; assess potential risks and opportunities; plan the human and physical resources and activities of the enterprises required to achieve corporate objectives.

### 35.267 Management 7 (Marketing)  S8 LT3
**Elective. Prerequisite: 35.265.**

Marketing for builders and developers in the Australian and Pacific environment with particular emphasis on the marketing mix, the relationship between a marketing system and its environment, development of marketing, tactics and strategy, market segmentation and the buyer decision process. Listing, selling and the auction process.

### 35.271 Law for Builders 1  S2 LT2
**Compulsory. Prerequisite: Nil.**

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

### 35.272 Law for Builders 2  S5 LT2
**Compulsory. Prerequisite: 35.271.**

General principles of insurance law. Law related to non-commercial succession to property. Real property and local government law, company and administrative law.

### 35.273 Law for Builders 3  S8 LT3
**Elective. Prerequisite: 35.272.**

Recognition of the significance of different land titles, tenures and interests in land; understand the construction and content of contracts, leases and other forms of agreement required for property dealings and use; develop a familiarity with public and private controls and restrictions on land use and development; appreciate the relationship between planning policies at all levels and the valuation process; a knowledge of the valuation review and determination processes of the Land and Environment Court and similar tribunals; appreciate the requirements for presentation of evidence as an expert witness; acquire a familiarity with major court cases, relevant to a valuer, which establish valuation principles; understand the major objectives of principal New South Wales Acts dealing with real estate or interests therein.

### 35.274 Commercial Arbitration  S8 LT3
**Elective. Prerequisite: 36.263.**

The nature and function of arbitration in relation to building contract disputes, the parties to arbitration, the arbitrator, his duties and powers. Case studies, moot arbitration.

### 35.381 Introduction to Computing  S3 LT2
**Compulsory. Prerequisite: Nil.**

Introduction to computer programming and applications. Description of computer hardware and peripheral equipment; use of time-sharing computing facilities; development of basic programming skills.

### 35.282 Computer Applications in Building  S5 LT2
**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  S8 LT3
**Elective. Prerequisite: 35.282.**

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  S7 LT3
**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  S3 LT2
**Compulsory. Prerequisite: Nil.**


#### 14.002 Introduction to Accounting B  S4 LT2
**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  S4 LT4
**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 S5 LT4
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 S8 LT3
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 S2 LT3
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 S6 LT3
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 S7 LT2
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 S6 LT2
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 S7 LT2
Elective. Prerequisite: 35.321.
Advanced estimating techniques, competitive tendering, contract cost adjustments; computer techniques applied to estimating.

35.390 Property Valuation S8 LT3
Elective. Prerequisite: Nil.

35.391 Land Economics S8 LT3
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 S7 LT2
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. Preplanning the building process, utilization of construction and management consultants. Development control during construction and in completion, tenant fit-outs and handing over to clients of the completed project.

35.393 Management of Buildings S8 LT2
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.

Other Subjects

35.401 Thesis Preparation S7 LT2
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 S8
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 S1-8
Compulsory. Prerequisite: Nil.
6 months of approved building industry experience at any time prior to graduation. Submission requirements are a daily diary, report and a letter from the employer.

35.420 Special Programme S7 or 8 LT2
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.

Industrial Design

Design Studios

39.311 Basic Design 4 L1 T3
Prerequisite: Nil
The basic elements of two and three dimensional design, and the development of the analytical and communication skills necessary for their understanding. Development of the creative processes concerned with the exploration and manipulation of the elements. Studies are undertaken within the context of art and design.

39.312 Design Studio 1 4 L1 T3
Corequisite: 39.311.
Theoretical and project work to introduce design methodologies and their application to three dimensional design problems.

39.321 Industrial Design Studio 2 10 F L1 T4
Prerequisite: 39.312.
The introduction of industrial design and research methodologies. Studies and projects are undertaken within the context of social, commercial and industrial requirements.

39.331 Industrial Design Studio 3 10 F L1 T4
Prerequisite: 39.321.
Continuation of the theoretical and project work of Industrial Design Studio 2. These two subjects cover examples from the range of major industrial design problems.

39.341 Industrial Design Studio 4 5 L1 T4
Prerequisite: 39.331.
Advanced theoretical and project work taking a particular project to an advanced state of development, preparatory to undertaking the Project.

39.342 Project Research 4 L1 T3
Prerequisite: 39.331.
Product research methodologies and their application to an individual project chosen in conjunction with the School. This work provides the research basis for the Project.

39.343 Project 12 L1 T11
Prerequisite: 39.331.
A project within the practice areas of industrial design, chosen by the student in consultation with the School at the commencement of Project Research. The project is based upon the research base established in Project Research.

39.332 Environmental & Interior Design for Industrial Designers 2 L1 T2
Prerequisite: 39.321.
Understanding the nature of environmental space and spatial ambiance, and the relationship of objects and products to the surrounding space. Environmental and interior design projects.

Design Skills

39.313 Visual Thinking & Drawing 4 L1 T3
Prerequisite: Nil.
The development of the capacity to see and the hand/eye co-ordination skills to record what is seen using a variety of media and methods. The capacity to develop and express visual concepts. The relationship between visual thinking and creative processes.

39.314 Geometrical & Mechanical Drawing 4 L1 T3
Prerequisite: Nil.
Introduction to orthographic drawing with particular reference to the Australian Engineering Drawing Standard. Mechanical projections other than perspective. Descriptive geometry and the analysis and synthesis of form and spatial relationships.

39.323 Perspective & Rendering Techniques 4 L1 T3
Prerequisites: 39.313 and 39.314.
Review of the major mechanical perspective systems and rendering techniques with particular reference to their applications in product design. Project studies are undertaken within the range of systems and media.
### Architecture

**39.315 Introduction to Computing** 3 L1 T2  
*Prerequisite: Nil.*  
Introduction to the computer with emphasis on its application in industrial design, engineering and information systems. Hardware and software. Experience in the use of equipment and development of basic programming skills.

**39.324 Computer Aided Design** 4 L2 T2  
*Prerequisite: 39.315.*  
Computer aided design and drafting systems and their applications in product development. Mathematical optimization techniques.

**39.333 Computer Graphic Applications** 4 L2 T2  
*Prerequisite: 39.324.*  
Development of Computer Aided Drafting with particular reference to perspective and rendering techniques using computing equipment, as well as the application of computing to other graphic problems.

**39.334 Photography for Industrial Design** 2 L1 T1  
*Prerequisite: 39.321.*  
The theory and practice of colour and black and white photography with particular reference to product and design presentation applications. Projects develop studio and dark room skills.

**39.322 Graphic Design for Industrial Designers** 3 L1 T2  
*Prerequisite: 39.312.*  
The major graphic production processes, and their application in graphic design. Type and typesetting systems. Graphic design projects.

### Design Theory

**39.326 Form Theory** 1 L1  
*Prerequisite: 39.311.*  
Study of form in nature, art and design. Theories of form. Form organisation, typology, and description.

**39.327 Design Methodology** 1L1  
*Prerequisite: 39.312.*  
Design methodology and its applications in the industrial situation, analysis of problems, strategy planning, the application of research methods. The methods. The problem of problem solving.

**39.334 Professional Practice** 1 L1  
*Prerequisite: 39.321.*  
Professional practice in industry and on consultancies. Organisation and management of design offices and projects. Professional and ethical responsibilities. Contracts, determination of fees, patents, design registrations, legal responsibilities and liabilities.

### Ergonomics

**39.317 Principles of Ergonomics** 2 L2  
*Prerequisite: Nil.*  
Applied anatomy and kinesiology, anthropometrics and application in product and environmental design. Physiological and psychological aspects of ergonomics, work, environment effects, man-machine interface. Principles of ergonomics research methods.
39.325 Applied Ergonomics 3 L1.5 T1.5
Prerequisite: 39.317.

Analysis of ergonomic requirements within the context of product development. Ergonomic methodology and experimental methods and their application in the product research and development process.

Industrial Experience

39.344 Industrial Experience 2
Prerequisite: 39.321.

Students obtain 3 months of approved practical experience in a design office. The subject may be taken from the end of the second year but at least half of the requirement must be taken from the end of the third year. The subject cannot be taken in units of less than 1 month. The experience is to be recorded in a logbook to be signed by the employer.

39.425 Electrical Engineering for Industrial Design B 2 L1 T1
Prerequisite: 39.424.


39.426 Materials and Manufacturing Processes for Industrial Designers A 2 L2 T1
Prerequisite: 39.422.

Engineering materials including polymers and timbers and their application in manufacturing processes. The range of processes.

39.427 Materials and Manufacturing Processes for Industrial Designers B 3 L2 T1
Prerequisite: 39.422.

Economics of production processes, design constraints alternate design and manufacturing strategies. Test procedures.

Science and Engineering Subjects

10.021B General Mathematics 1B 6 L4 T2
Prerequisite: HSC Exam Score Required +.

Functions (and their inverses), limits, asymptotes, continuity; differentiation and applications; integration, the definite integral and applications; inverse trigonometric functions; the logarithmic and exponential functions and applications; sequences and series; mathematical induction; the binomial theorem and applications; introduction to probability theory; introduction to 3-dimensional geometry; introduction to linear algebra.

10.021C General Mathematics 1C 6 L4 T2
Prerequisite: 10.021B.

Techniques for integration, improper integrals, Taylor's theorem; first order differential equations and applications; introduction to multivariable calculus; conics; finite sets; probability; vectors, matrices and linear equations.

Students who have a meritorious performance in the Higher Mathematics may take either 10.001 Mathematics 1 or 10.011 Higher Mathematics 1 instead of 10.021B and 10.021C, subject to the approval of the Head of Department and the Head of the School of Mathematics.

10.301 Statistics 4 F L1.5 T0.5
Prerequisite: 10.021C.

Probability, random variables, independence, binomial, Poisson and normal distributions, transformations to normality, estimation of mean and variance, confidence intervals, tests of hypotheses, contingency tables, two sample tests of location, simple and multiple linear regression, analysis of variance for simple models.

1.931 Physics 4 L4 T2
Prerequisite: Nil.


**Students lacking appropriate experience of physics are strongly advised to take the appropriate Unisearch bridging courses, after consultation with the Head of Department.

39.421 Engineering Design Mechanics 4 L2 T2
Prerequisites: 10.021C and 1.931.

### Architecture

equations motion; work, power, energy; impulse, momentum, impact.

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<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Lectures</th>
<th>Tutorials</th>
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<tbody>
<tr>
<td>39.422</td>
<td>Introduction to Materials Science</td>
<td>1 L1</td>
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<td>Prerequisite: 1.931</td>
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<td>Structure and properties of major engineering materials, including polymers and timbers. Including materials recognition and design potential.</td>
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<td>39.423</td>
<td>Mechanics of Solids, for Industrial Design</td>
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<td>Prerequisite: 39.421</td>
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<td>39.424</td>
<td>Electrical Engineering for Industrial Design A</td>
<td>2 L1.5 T.5</td>
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<td>Prerequisite: 1.931</td>
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<td>Ohm's law, concepts of AC and DC voltage and current. The basics of transformers, motors and electromechanical product systems. Electromagnetic interference, shielding and earthing.</td>
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<td>39.431</td>
<td>Production Management for Industrial Design</td>
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<td></td>
<td>Methods engineering, motion and time study, financial incentives, applications to machine controlled processes, work sampling and data collection. Factory layout. Control of jobbing, repetitive batch and continuous production. Manufacturing organisations, functions, inter-relationships and information flow. Sampling techniques in quality control, control charts, quality assurance. Economic objectives of the firm. Economic measure of performance net present value, annual equivalent value and the DCF rate of return (including the incremental rate of return) and their application in the selection and replacement of processes and equipment.</td>
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<tr>
<td>39.432</td>
<td>Production Design and Technology for Industrial Design</td>
<td>2 L1.5 T.5</td>
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<td></td>
<td>Prerequisite: 39.426</td>
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<td></td>
<td>Basic metrology and tolerancing, introduction to plasticity theory and its application to theories for machining and forming, economics of production processes; interaction of machines and tools; principles of process selection; review of major processes, interaction of design, production quantity, materials and processes; value analysis, design constraints. Quality assurance.</td>
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### Commerce Subjects

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Lectures</th>
<th>Tutorials</th>
</tr>
</thead>
<tbody>
<tr>
<td>28.052</td>
<td>Marketing Research</td>
<td>4 L2 T2</td>
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<td></td>
<td>Prerequisite: 10.301</td>
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<td></td>
<td>Sources and types of marketing information. Design, conduct, analysis and reporting of market surveys and experiments. Technique of statistical inference.</td>
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<tr>
<td>28.032</td>
<td>Consumer Behaviour A</td>
<td>4 L2 T2</td>
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<td>Prerequisite: Nil</td>
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<td></td>
<td>Major concepts, research and applications from the study of behavioural sciences as applied to human behaviour in the marketplace. The nature and scope of the behavioural sciences; purchase behaviour; the perception and learning of brands; personality theory and applications to advertising; cognition and memory; involvement and decision making by consumers; behavioural methodologies for consumer analysis.</td>
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<tr>
<td>28.042</td>
<td>Consumer Behaviour B</td>
<td>4 L2 T2</td>
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<td></td>
<td>Prerequisite: 28.032</td>
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<td></td>
<td>Attitudes and motivation; the structure of consumer aggregates; interpersonal and mass media communications; groups, the family, social class and institutions in society; human values and culture; organisational buying behaviour; consumerism. Students undertake a major field research project.</td>
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<tr>
<td>28.073</td>
<td>Strategic Marketing</td>
<td>4 L2 T2</td>
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<td></td>
<td>Prerequisites: 28.012 and 28.052</td>
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<td></td>
<td>Conceptual framework relevant to the practice of marketing management for the further development of an integrative understanding of the market function. Important extensions and limitations of customer orientation and the emergence of a broader concept of marketing; stages of development of a marketing operation, the central role of innovation in opportunity management and the concept of control, importance of product.</td>
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<td>28.083</td>
<td>Managerial Marketing</td>
<td>4 L2 T2</td>
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<td>Prerequisite: 26.073</td>
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<td></td>
<td>Application of theoretical marketing concepts developed in Strategic Marketing and quantitative techniques developed in &quot;Marketing Models&quot;. Based on the planning implementation and appraisal of a major field study.</td>
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<tr>
<td>14.501</td>
<td>Accounting &amp; Financial Management 1A</td>
<td>4.5 L2 T2.5</td>
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<td></td>
<td>Prerequisite: Nil</td>
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<td></td>
<td>The basic concepts of financial model building and information systems, including the double-entry recording system, the accounting cycle, income measurement and financial reporting, and an introduction to basic elements of auditing.</td>
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<tr>
<td>14.511</td>
<td>Accounting &amp; Financial Management 1B</td>
<td>4.5 L2 T2.5</td>
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<td>Prerequisite: 14.501</td>
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<td></td>
<td>Development of basic concepts introduced in 14.501 Accounting and Financial Management 1A, including corporate reporting, business finance, system design, elementary computer applications.</td>
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<tr>
<td>28.012</td>
<td>Marketing Systems</td>
<td>4 L2 T2</td>
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<tr>
<td></td>
<td>Prerequisite: Nil</td>
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<td></td>
<td>Conceptual introduction to marketing from the systems viewpoint. Evolution and characteristics of marketing</td>
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</table>
systems, buyer behaviour, marketing channel flows (equalizing supply and demand, communication, ownership, finance, physical distribution), marketing activities in the firm (planning and marketing program, co-ordination and control of marketing activities, problem solving, product planning, promotion and pricing, physical distribution management), resources allocation by competition, the expanding role of government, social performance or marketing and social efficiency of marketing.

General Education Program
12 L12
12 credit points of General Education Program subject taken throughout the course.

Town Planning

Core Subjects

36.211 Introduction to Planning
S1 L5T7
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
S2 L6T8
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
S1 L3T9
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 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
S2 L3T3
Prerequisites: 36.213 and 36.215. Co-requisite: 36.421

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
S1 L8T6
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 environmental 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 and 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 2  
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  
Prerequisites: 36.422.
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 2  
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  
Prerequisites: 36.211 and 36.212.
Computer applications in planning and related fields. An exploration and documentation of available software of use to the planning profession which has not been covered earlier in the course. Students also may develop and document their own planning-related software.

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 basic skills 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 1  
S2 L1T1
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 2  
S1 L1T1
Introduction to methods used to incorporate consideration of physical environmental variables into the planning process.

36.234 Urban Design  
S2 L2T1
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  
S1 L1T2
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  
S2 L1T1
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  
F L1T1
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  
S2 L2
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  
S1 L2
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

For initial enrolment only.

36.8301 Residential Planning

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

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

36.8303 Regional Planning 3

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

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

36.8305 Urban Conservation

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

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

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

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

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

36.8313 Urban Design 2

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


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**  
*S1 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 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, 25.5222, 37.3101.*

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, 37.9105.*

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*  
*Prerequisites: 37.3005, 37.5606.*

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

**37.3101 Landscape Graphics 1**  
*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, 37.5313.  
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, 37.3101.  
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, 37.1302, 37.3203.  
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: 37.5414, 37.1513, 37.7205.  
More advanced design exercises within the context of both natural and urban environments. Emphasis is on gaining a knowledge of site planning with specific reference to sites located within the geological areas of the Sydney Region. Projects are of a large scale and further emphasis is directed towards consideration of appropriate environmental management and realisation of required maintenance ends in relation to design solutions.

37.5606 Landscape Design 4  
S2 L2 T6  
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  
S2 L2T10  
Prerequisites: 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  
S1 L1T5  
Prerequisites: 37.5605.  
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. Content and place, history and theory are considered as well as analytical techniques. Design studios, lectures and seminars.

37.7113 Professional Practice A  
S1 L2  
Prerequisites: 37.5414, 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  
S2 L1T2  
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 S2 L2
Prerequisite: 37.7113, 37.5505.
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 S1 L1T2
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 S2 L1T2
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 S1 L2T1
Prerequisite: 37.7205, 37.5414.
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 B S2 L1T2
Prerequisite: 37.7515, 37.5505.
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 S1 L2T2
Prerequisite: 37.1513, 37.5414.
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 S2 L2T2
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 specifically refer to students of Architecture enrolled in courses 3260 or 3265.

37.100 Site Planning Elective S2 L2
2 credit points.
Not offered in 1990.
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 S2 L2
2 credit points.
The selection and use of plant materials within the built environment with particular reference to visual and ecological considerations.

37.400 Urban Landscape Elective S1 L2
2 credit points.
Not offered in 1990.
The treatment of spaces between and upon buildings "Hard" and "soft" landscape treatments. Functional uses of open space within the built environment and the design of street furniture.

37.500 Recreation Planning Elective S1 L2
2 credit points.
Not offered in 1990.
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.

Subjects Offered to Other Schools

37.224 Landscape Architecture S2 L2
Landscape and planting within the built environment with particular reference to functional, ecological and aesthetic considerations; the treatment of spaces between buildings and in road reservations; hard and soft landscape treatments; establishment and maintenance cost.
Botany

43.202 Botany for Landscape Architects  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.

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.
Graduate Study

Faculty of Architecture Graduate Enrolment Procedures

All students enrolling in graduate courses should obtain a copy of the free booklet Enrolment Procedures 1990 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, Master of Town Planning, Master of the Built Environment. 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, town planning or the built environment. 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 Entry

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
PhD

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

1121
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) 39.302G Research Studies 2 credit points
   (3) 39.303G Directed Studies 3 credit points
   (4) Preparation and structuring of a doctoral research topic

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

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

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

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

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

2201
Master of Architecture

Master of Architecture

MArch

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

2240
Master of the Built Environment

Master of the Built Environment

MBEnv

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

8100
Master of Science (Acoustics) Course

Master of Science (Acoustics)

MSc(Acoustics)

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

Admission Requirements

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

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

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

Course Structure

The course 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.

55
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>

<table>
<thead>
<tr>
<th>Session 2 – Elective</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.995G Community Noise</td>
<td>4</td>
</tr>
<tr>
<td>39.998G Noise control in Buildings</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session 3 – Elective</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.652G Noise Control in Industry</td>
<td>4</td>
</tr>
<tr>
<td>39.902G Advanced Physical Acoustics</td>
<td>4</td>
</tr>
<tr>
<td>39.997G Auditorium Acoustics</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session 3 – Compulsory</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.994G Graduate Project A</td>
<td>5</td>
</tr>
<tr>
<td>(Prerequisite 10 credit points)</td>
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<table>
<thead>
<tr>
<th>Session 4 – Compulsory</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.997G Graduate Project B</td>
<td>10</td>
</tr>
<tr>
<td>(Prerequisite 39.994G)</td>
<td></td>
</tr>
</tbody>
</table>

In addition to these subjects, a total of up to 8 credit points may be obtained by completing other subjects offered by the University of New South Wales subject to the approval of the Head of Graduate School of the Built Environment.

8130 Master of the Built Environment (Building Conservation) Course

Master of the Built Environment (Building Conservation)

MBEnv

This course consists of graduate work in the major areas of building conservation. It is designed for graduates who wish to specialize in the conservation of the built environment by working actively in the preservation, restoration, reconstruction, adaptation or related treatments of existing structures.

Admission Requirements

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

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

Course Structure

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

The course comprises 36 credit points, each credit point representing class contact of approximately 14 hours.

Full-time study normally requires an attendance of 18 hours per week while part-time study normally requires attendance of an average of 9 hours per week for the duration of the course.

Most of the work is done in the School, but approved practical experience forms an important component of the course. The program is so arranged that eminent visitors as well as guest lecturers may participate.

Normally, subjects are timetabled on one afternoon and evening, and one other evening each week. In addition to 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>Total Contact Hours</th>
<th>Credit Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contextual Studies</td>
<td>14 1</td>
</tr>
<tr>
<td>Architectural History</td>
<td>42 3</td>
</tr>
<tr>
<td>Conservation Management</td>
<td>42 3</td>
</tr>
<tr>
<td>Analysis and Documentation</td>
<td>84 6</td>
</tr>
<tr>
<td>Conservation Technology</td>
<td>210 15</td>
</tr>
<tr>
<td>Graduate Project</td>
<td>112 8</td>
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</tbody>
</table>

Typical Pattern of Full-time Study

<table>
<thead>
<tr>
<th>Hrs</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Session 1</td>
<td></td>
</tr>
<tr>
<td>39.101G Contextual Studies</td>
<td>14 1</td>
</tr>
<tr>
<td>39.102G Architectural History</td>
<td>42 3</td>
</tr>
<tr>
<td>39.104G Analysis and Documentation A</td>
<td>56 4</td>
</tr>
<tr>
<td>39.105G Analysis and Documentation B</td>
<td>28 2</td>
</tr>
<tr>
<td>39.106G Conservation Technology A</td>
<td>28 2</td>
</tr>
<tr>
<td>39.108G Conservation Technology C</td>
<td>56 4</td>
</tr>
<tr>
<td>39.110G Graduate Project</td>
<td>56</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hrs</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 2</td>
<td></td>
</tr>
<tr>
<td>39.103G Conservation Management</td>
<td>42 3</td>
</tr>
<tr>
<td>39.107G Conservation Technology B</td>
<td>70 5</td>
</tr>
<tr>
<td>39.109G Conservation Technology D</td>
<td>56 4</td>
</tr>
<tr>
<td>39.110G Graduate Project</td>
<td>56</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hrs</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 1</td>
<td></td>
</tr>
<tr>
<td>39.101G Contextual Studies</td>
<td>14 1</td>
</tr>
<tr>
<td>39.102G Architectural History</td>
<td>42 3</td>
</tr>
<tr>
<td>39.104G Analysis Documentation A</td>
<td>56 4</td>
</tr>
</tbody>
</table>

Typical Pattern of Part-time Study

<table>
<thead>
<tr>
<th>Hrs</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 1</td>
<td></td>
</tr>
<tr>
<td>39.101G Contextual Studies</td>
<td>14 1</td>
</tr>
<tr>
<td>39.102G Architectural History</td>
<td>42 3</td>
</tr>
<tr>
<td>39.104G Analysis Documentation A</td>
<td>56 4</td>
</tr>
</tbody>
</table>
Department of Industrial Design

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. 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 38 credit points. The MSc(IndDes) degree course comprises 36-38 credit points. One credit point is normally equivalent to one hour per week for one session. Full-time study normally requires an attendance of approximately 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.
Architecture

Course Subjects

<table>
<thead>
<tr>
<th>Common Core</th>
<th>Credit Points</th>
<th>Usual Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>39.501G Industrial Design Studies</td>
<td>2</td>
<td>S1 S2</td>
</tr>
<tr>
<td>39.511G Ergonomics for Industrial Designers</td>
<td>2</td>
<td>S2</td>
</tr>
<tr>
<td>39.521G Business Studies for Industrial Designers</td>
<td>2</td>
<td>S1</td>
</tr>
<tr>
<td>39.531G Manufacturing Technology</td>
<td>2</td>
<td>S1</td>
</tr>
<tr>
<td>39.541G Industrial Experience*</td>
<td>2</td>
<td>*</td>
</tr>
</tbody>
</table>

MID only

| 39.502G Graduate Project (MID) | 14 | S1 S2 |
| 39.512G Design Theory | 4 | S1 S2 |
| 39.522G Industrial Design | 4 | S1 |
| Approved Electives** | 6 |

MSc(IndDes) only

| 39.503G Design Media and Communication | 2 |
| 39.513G Visual Thinking*** | 2 |
| 39.523G Industrial Design A | 6 |
| 39.533G Industrial Design B | 6 | S1 S2 |
| 39.543G Graduate Project (MSc(IndDes)) | 8** |

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

<table>
<thead>
<tr>
<th>Common Core</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<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>2</td>
</tr>
</tbody>
</table>

MID only

| 39.502G Graduate Project (MID) | 3** |
| 39.512G Design Theory | 3 |
| 39.522G Industrial Design | 4 |
| Approved Electives | 4 |

Total hours per week MID 27 20

MSc(IndDes) only

| 39.503G Design Media and Communication | 2 |
| 39.513G Visual Thinking*** | 2 |
| 39.523G Industrial Design A | 6 |
| 39.533G Industrial Design B | 2 |
| 39.543G Graduate Project (MSc(IndDes)) | 8** |

Approved Electives

Total hours per week MSc(IndDes) 28 20

Depending upon course requirements, the availability of University staff and Faculty resources, it may be possible to substitute some existing graduate or undergraduate courses in other faculties for certain subjects of the course. This development would be subject to the approval of the Higher Degree Committee of the Faculty of Architecture and the Heads of the schools offering the courses. Where the credit point of subjects is increased by substitution of subjects from other schools, the requirement for the stated number of credits in elective subjects is correspondingly reduced.

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

<table>
<thead>
<tr>
<th>Common Core</th>
<th>Hours per week</th>
</tr>
</thead>
<tbody>
<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>2</td>
</tr>
</tbody>
</table>

MID only

| 39.502G Graduate Project (MID) | 3** |
| 39.512G Design Theory | 3 |
| 39.522G Industrial Design | 4 |
| Approved Electives | 4 |

Total hours per week MID 10 10

MSc(IndDes) only

| 39.503G Design Media and Communication | 2 |
| 39.513G Visual Thinking*** | 2 |
| 39.523G Industrial Design A | 6 |
| Approved electives | 1 |

Total hours per week MSc(IndDes) 10 9

* 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 masterly accomplishment.

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

The central project is supported by elective subjects.

Admission Requirements

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

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

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

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

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

Course Structure

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

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

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

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

Course Program

<table>
<thead>
<tr>
<th>Credit points</th>
<th>S1</th>
<th>S2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural Synthesis 1 and 2 (core)</td>
<td>9</td>
<td>11</td>
</tr>
<tr>
<td>Electives</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>Course Award</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Credit points</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

Core Subjects

11.901G Architectural Synthesis 1  
11.902G Architectural Synthesis 2

Electives

11.930G Architectural Theory
11.931G Ideologies of Modern Architecture
11.932G Architectural Impact Studies
11.933G Cultural Influences in Civic Design
11.934G Structural and Architectural Space
11.935G Design for Industrialized Buildings
11.936G Resources for Buildings

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.

8116

Master of Project Management Course

Master of Project Management
MProjMgt

Course Co-ordinator
Mr. Robert Zikmann

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
week. Except in exceptional circumstances, a student is required to be concurrently enrolled in all subjects in a given session to allow for syllabus integration between subjects.

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

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

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

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

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

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 1990 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 Project 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 Project 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 (GradDipLP) 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.
2220
Master of Landscape Architecture

Master of Landscape Architecture
MLArch

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

8135
Master of Landscape Planning

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.

5215
Graduate Diploma in Landscape Planning

Graduate Diploma
GradDipLP

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.
Course Program

<table>
<thead>
<tr>
<th>Course Subjects</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>90.341 Environmental Law</td>
<td>3</td>
</tr>
<tr>
<td>37.901G Landscape Planning</td>
<td>3</td>
</tr>
<tr>
<td>37.902G Landscape Planning Methods</td>
<td>3</td>
</tr>
<tr>
<td>37.903G Landscape Planning Project</td>
<td>6</td>
</tr>
<tr>
<td>37.904G Visual Landscape Assessment</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Course Subjects</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>27.644G Computer Mapping and</td>
<td></td>
</tr>
<tr>
<td>Data Display</td>
<td>3</td>
</tr>
<tr>
<td>39.106G Conservation Technology A</td>
<td>3</td>
</tr>
<tr>
<td>39.101G Contextual Studies</td>
<td>3</td>
</tr>
<tr>
<td>27.672G Geographic Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>29.604G Land Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>37.161G Land Systems and Management</td>
<td>3</td>
</tr>
<tr>
<td>27.043G Remote Sensing Applications</td>
<td>3</td>
</tr>
</tbody>
</table>

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.
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>
</tr>
</thead>
<tbody>
<tr>
<td>1 School of Physics</td>
<td>Science</td>
</tr>
<tr>
<td>2 School of Chemistry</td>
<td>Science</td>
</tr>
<tr>
<td>3 School of Chemical</td>
<td>Applied Science</td>
</tr>
<tr>
<td>4 School of Materials</td>
<td>Applied Science</td>
</tr>
<tr>
<td>5 School of Mechanical</td>
<td>Engineering</td>
</tr>
<tr>
<td>6 School of Electrical</td>
<td>Engineering</td>
</tr>
<tr>
<td>7 School of Mines</td>
<td>Applied Science</td>
</tr>
<tr>
<td>8 School of Civil</td>
<td>Engineering</td>
</tr>
<tr>
<td>9 School of Fibre</td>
<td>Applied Science</td>
</tr>
<tr>
<td>10 School of Mathematics</td>
<td>Science</td>
</tr>
<tr>
<td>11 School of Architecture</td>
<td>Architecture</td>
</tr>
<tr>
<td>12 School of Psychology*</td>
<td>Biological and Behavioural Sciences</td>
</tr>
<tr>
<td>13 School of Fibre</td>
<td>Applied Science</td>
</tr>
<tr>
<td>14 School of Accounting</td>
<td>Commerce &amp; Economics</td>
</tr>
<tr>
<td>15 School of Economics</td>
<td>Commerce &amp; Economics</td>
</tr>
<tr>
<td>16 School of Health</td>
<td>Professional Studies</td>
</tr>
<tr>
<td>17 Faculty of Biological and Behavioural Sciences</td>
<td>Engineering</td>
</tr>
<tr>
<td>18 School of Mechanical and Industrial Engineering (Industrial Engineering)</td>
<td>Engineering</td>
</tr>
<tr>
<td>19 School of Information Systems</td>
<td>Commerce &amp; Economics</td>
</tr>
<tr>
<td>20 Centre for Petroleum Engineering Studies</td>
<td>Applied Science</td>
</tr>
<tr>
<td>21 Department of Industrial Arts</td>
<td>Architecture</td>
</tr>
<tr>
<td>22 Faculty of Professional Studies</td>
<td>Professional Studies</td>
</tr>
<tr>
<td>23 School of Primary and Computer Education</td>
<td>Professional Studies</td>
</tr>
<tr>
<td>24 Faculty of Social Work</td>
<td>Professional Studies</td>
</tr>
<tr>
<td>25 School of Primary and Computer Education</td>
<td>Professional Studies</td>
</tr>
<tr>
<td>26 Centre for Liberal and General Studies Studies</td>
<td>Liberal and General Studies</td>
</tr>
<tr>
<td>27 School of Geography</td>
<td>Applied Science</td>
</tr>
<tr>
<td>28 School of Marketing Commerce &amp; Economics</td>
<td>Engineering</td>
</tr>
<tr>
<td>29 School of Surveying</td>
<td>Commerce &amp; Economics</td>
</tr>
<tr>
<td>30 School of Industrial Relations and Organizational Behaviour</td>
<td>Science</td>
</tr>
<tr>
<td>31 School of Optometry Engineering</td>
<td>Engineering</td>
</tr>
<tr>
<td>32 Centre for Biomedical Engineering</td>
<td>Professional Studies</td>
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<tr>
<td>33 School of Sports and Leisure Studies</td>
<td>Arts</td>
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<tr>
<td>34 Faculty of Arts</td>
<td>Architecture</td>
</tr>
<tr>
<td>35 School of Building Architecture</td>
<td>Architecture</td>
</tr>
<tr>
<td>36 School of Town Planning Architecture</td>
<td>Architecture</td>
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<tr>
<td>37 School of Landscape Architecture</td>
<td>Architecture</td>
</tr>
<tr>
<td>38 School of Applied Bioscience Applied Science</td>
<td>Faculty of Applied Science (Food Science and Technology)</td>
</tr>
<tr>
<td>39 Graduate School of the Built Environment</td>
<td>Architecture</td>
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<td>40 Academic Board</td>
<td>Biological and Behavioural Sciences</td>
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<td>41 School of Biochemistry</td>
<td>Applied Science</td>
</tr>
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<td>42 School of Applied Bioscience (Biotechnology)</td>
<td>Biological and Behavioural Sciences</td>
</tr>
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<td>43 School of Microbiology</td>
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</tr>
<tr>
<td>44 School of Biological Science</td>
<td>Biological and Behavioural Sciences</td>
</tr>
<tr>
<td>45 Faculty of Applied Science Engineering</td>
<td>Applied Science</td>
</tr>
<tr>
<td>46 Centre for Safety Science Engineering</td>
<td>Applied Science</td>
</tr>
<tr>
<td>47 Department of Industrial Engineering and Industrial Chemistry (Old Course)</td>
<td>Applied Science</td>
</tr>
<tr>
<td>48 School of Chemical Engineering and Industrial Chemistry (Old Course)</td>
<td>Applied Science</td>
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<tr>
<td>49 Subjects also available for courses in this handbook</td>
<td>Arts</td>
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<tr>
<td>50 School of German Studies</td>
<td>Arts</td>
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<tr>
<td>51 School of Russian Studies</td>
<td>Arts</td>
</tr>
<tr>
<td>52 School of Spanish and Latin American Studies</td>
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<td>53 School of Mathematics</td>
<td>Science</td>
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<td>54 School of History</td>
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<td>55 School of Sociology</td>
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<tr>
<td>57 School of Psychology</td>
<td>Science and Mathematics</td>
</tr>
<tr>
<td>58 School of Business Administration</td>
<td>Science and Mathematics</td>
</tr>
<tr>
<td>59 School of Economics</td>
<td>Science and Mathematics</td>
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<td>60 School of Management</td>
<td>Science and Mathematics</td>
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<td>Science and Mathematics</td>
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<td>62 Department of Music</td>
<td>Science and Mathematics</td>
</tr>
<tr>
<td>63 School of Social Work</td>
<td>Science and Mathematics</td>
</tr>
<tr>
<td>64 School of German Studies</td>
<td>Science and Mathematics</td>
</tr>
<tr>
<td>65 School of Spanish and Latin American Studies</td>
<td>Science and Mathematics</td>
</tr>
<tr>
<td>66 Subjects Available from Other Universities</td>
<td>Science and Mathematics</td>
</tr>
<tr>
<td>67 Faculty of Science</td>
<td>Board of Studies in Science and Mathematics</td>
</tr>
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<td>68 School of Arts Education</td>
<td>Professional Studies</td>
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<td>69 School of Anatomy</td>
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<td>73 School of Radiological and Nuclear Medicine</td>
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<td>74 School of Surgery</td>
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<td>75 School of Obstetrics and Gynaecology</td>
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<td>79 School of Community Medicine</td>
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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 age.

11.931G Ideologies of Modern Architecture  C2

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

11.932G Architectural Impact Studies  C2

Examination of a number of selected buildings in the historical and in the contemporary milieu regarding their impact upon the animate and inanimate context of which they become an organic part. Cultural context: purpose and meaning of the building, its mode of expression, and effect upon the cultural existing pattern. Communication context: the effect of the building upon communication and exchange of experience and goods. Urban context: character, style, shape, proportion, material, 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 Managerial Economics 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. Interpersonal 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 economics: 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, process, cost, personnel management. Staff presentation of case studies. Tutorial sessions. Presentation of student case studies.

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

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

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 aand 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 S1 L2 T1
Information systems, communication networks and modelling techniques in construction management from micro computer to main frame.

35.156G Advances in Building Materials S1 L2 T1
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 S2 L2 T1
A comparison of construction practices in various nations. The impact of local economic, labour and technical parameters on construction management.

35.252G Building Services S2 L2 T1
The design, installation and coordination of building services: hydraulic, electrical, air conditioning, communication and transportation.

35.253G Construction Planning and Control S2 L2 T1
Programming, scheduling and control systems, both manual and computerised.

35.255G Contracts Management and Law S2 L2 T1
Selection of contract form; preparation of documents; procedures, disputes and claims; arbitration; legal aspects; risk and insurance.

35.256G Cost Planning and Analysis S2 L2 T1
Feasibility studies, cost planning, value analysis and value engineering.

35.257G Quantitative Methods in Management S2 L2 T1
Statistical analysis and systems modelling methods in construction management.

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) SS L3
Structure of towns, cities and regions. Needs and activities of people. Land use, transport and service systems. Planning theories, aims and objectives. Planning at different scales and in different time frames. Planning as a process. Planning studies, information systems, statistics, research methodology, computer applications.

36.935G Local Planning 1 (G) L3
Theories at the local level: neighbourhood and precinct concepts, local community structure, survey and analysis. Subdivision and housing layout, basic transportation planning and management, street design, landscaping, utilities. Practice of planning new neighbourhoods and proposals for conservation and redevelopment.

36.936G Local Planning 2 (G) SS L3

36.937G Regional Planning 1 (G) SS L3
Theories at the metropolitan level. Accessibility, equity, economies, politics. Structure and organization, land use and transportation relationships. Forecasting, alternative futures. Incremental decision making: integrating local and metropolitan planning.

36.938G Regional Planning 2 (G) SS L3
Theories at the regional level. Location theory, strategies of regional policy. Trends in tourist, rural and extractive industries. Ecological land use planning, recreation and
36.939G Law and Administration Planning (G) SS L3

36.945G The Organization of Town Planning
Aims, means and consequences of town planning in Australia. Means 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 F
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 F
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 S2 L1 T2
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 S1 L2 T1
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 S2 L2 T1
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 S1S2 L1T2
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 S2 L2 T1
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 S1
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, adaptation and reuse, infill, urban conservation. Conservation as a heritage consideration, including the criteria for selecting, listing and classifying structures; as a non-heritage consideration, including aspects of economics and
construction; and as a planning, landscape and townscape consideration. The current legal framework. Government, semi-government and community conservation organizations and their roles.

39.102G Architectural History  S1
The rationale, investigation and interpretation of architectural history. The cause-and-effect relationships, particularly social, underlying architecture. Influences upon Australia from other countries. Detailed studies of selected aspects of architectural and building history, mainly Australian. Traditional technology. Development of technology and the manifestation of style. Histories of selected building types, methods, materials and finishes.

39.103G Conservation Management  S2

39.104G Analysis and Documentation A  S1

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

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

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

39.108G Conservation Technology C  S1
Prerequisite: 39.107G or equivalent.

39.109G Conservation Technology D  S2
Prerequisite: 39.107G or equivalent.

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, resultant design, and evaluation of the methodology, research and design.

39.651G Mechanical Shock and Vibration

Prerequisite: Nil.

Vibrating systems, strings, rods, beams, plates, shells; radiation characteristics of noise sources; random vibration; structures; fatigue, filters, isolators, attenuators, dampers; impedance.

39.652G Noise Control in Industry

Prerequisite: Nil.

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

39.901G Acoustic Measuring Systems and Electroacoustics  S1 L2 C2
Prerequisite: Nil.
Transducers; microphones; amplifiers; loudspeakers; filters, recorders, pick-ups; noise generators; acoustic measuring instruments. Sound reinforcement systems; ambiphony; assisted resonance. Special requirements for translation, language laboratories.

39.902G Advanced Physical Acoustics  S1 L3T1 C4
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
Prerequisite: Nil.
Physiological and psychoacoustic factors in sound perception; discrimination, masking; loudness and annoyance; subjective scales and units; hearing threshold shift; damage risk criteria, hearing conservation programs and audiometry; standards and regulations.

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

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

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*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 form and 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 (8)) 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.
(7) The work shall be carried out under the direction of a supervisor appointed from the full-time academic members of the University staff.

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

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

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

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

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

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

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

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

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

(3) The thesis shall comply with the following requirements:

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

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

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

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

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

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

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

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

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

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

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

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

* 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.
(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 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) Where 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. 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.

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

(2) 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.

(3) 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.

*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.

1. The degree of Master of Architecture or Master of Building or Master of the Built Environment or Master of Landscape Architecture or Master of Town Planning by research may be awarded by the Council on the recommendation of the Higher Degree Committee of the Faculty of Architecture (hereinafter referred to as the Committee) to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation or design.
Qualifications

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

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

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

Enrolment and Progression

3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the 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.

Thesis

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

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

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

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

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

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.

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

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.

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.

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.
(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.

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

Qualifications

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

2. A candidate for the degree shall have been awarded an appropriate degree of Bachelor from the University of New South Wales with at least three years relevant standing in the case
Graduate Study: Conditions for the Award of Higher Degrees

1. The degree of Master of Landscape Planning by formal coursework 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.

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

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Enrolment and Progression

Thesis

Examination

Fees

Master of Landscape Planning (MLP)

Qualifications
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. Graduate Diploma may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study.

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.
Scholarship 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>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bursary Endowment Board*</td>
<td>$200 pa</td>
<td>Minimum period of approved degree/combined degree course</td>
<td>Merit in HSC and total family income not exceeding $6000</td>
</tr>
<tr>
<td>Sam Cracknell Memorial</td>
<td>Up to $3000 pa payable in fortnightly instalments</td>
<td>1 year</td>
<td>Prior completion of at least 2 years of a degree or diploma course and enrolment in a full-time course during the year of application; academic merit; participation in sport both directly and administratively; and financial need.</td>
</tr>
<tr>
<td>Girls Realm Guild</td>
<td>Up to $1500 pa</td>
<td>1 year renewable for the duration of the course subject to satisfactory progress and continued demonstration of need</td>
<td>Available only to female students under 35 years of age who are permanent residents of Australia enrolling in any year of a full-time undergraduate course on the basis of academic merit and financial need.</td>
</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>
<tr>
<td>Alumni Association</td>
<td>Up to $1500 pa</td>
<td>1 year with the possibility of renewal</td>
<td>Available to students enrolled in any year of a full-time course. Candidates must be the children of Alumni of the University of NSW and may be either permanent residents of Australia or overseas students.</td>
</tr>
</tbody>
</table>

*Apply to The Secretary, Bursary Endowment Board, PO Box 460, North Sydney 2060, immediately after sitting for HSC.

**Applications close 30 September each year.
Graduate Scholarships

Application forms and further information are available from the Student Centre, 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>
</tr>
</thead>
<tbody>
<tr>
<td>General</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Postgraduate Research Scholarships</td>
<td>Living allowance of $9000 pa. Other</td>
<td>1-2 years for a</td>
<td>Applicants must be honours graduates or equivalent. Applications to Dean</td>
</tr>
<tr>
<td></td>
<td>allowances may also be paid.</td>
<td>Masters and 3-4</td>
<td>of relevant Faculty.</td>
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<tr>
<td></td>
<td></td>
<td>years for a PhD</td>
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<tr>
<td></td>
<td></td>
<td>degree</td>
<td></td>
</tr>
<tr>
<td>Commonwealth Postgraduate Research Awards</td>
<td>$12,734 to $16,433</td>
<td>1-2 years; minimum</td>
<td>Applicants must be honours graduates or equivalent or scholars who will</td>
</tr>
<tr>
<td></td>
<td></td>
<td>duration of course</td>
<td>graduate with honours in current academic year, and who are domiciled in</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Australia. Applications to Academic Registrar by 31 October.</td>
</tr>
<tr>
<td>Commonwealth Postgraduate Course Awards</td>
<td>Living allowance of $10,415 pa. Other</td>
<td>1-2 years;</td>
<td>Applicants must be graduates or scholars who will graduate in current</td>
</tr>
<tr>
<td></td>
<td>allowances may also be paid.</td>
<td>minimum duration</td>
<td>academic year, and who have not previously held a Commonwealth Post-</td>
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<tr>
<td></td>
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<td>of course</td>
<td>graduate Award. Applicants must be domiciled in Australia. Preference</td>
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<td></td>
<td>is given to applicants with employment experience. Applications to</td>
</tr>
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<td></td>
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<td></td>
<td>Academic Registrar by 30 September.</td>
</tr>
<tr>
<td>Australian American Educational Foundation</td>
<td>Travel expenses and $2000 as establishment</td>
<td>1 year,</td>
<td>Applicants must be graduates who are domiciled in Australia and wish to</td>
</tr>
<tr>
<td>Fulbright Award</td>
<td>allowance.</td>
<td>renewable</td>
<td>undertake research or study for a higher degree in America. Applications</td>
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<td></td>
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<td>close 30 September with The Secretary, DEET, AAEF Travel Grants, PO Box</td>
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<td></td>
<td></td>
<td></td>
<td>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</td>
</tr>
<tr>
<td>Commonwealth Scholarship and Fellowship Plan</td>
<td></td>
<td></td>
<td>Federation of University Women</td>
</tr>
<tr>
<td></td>
<td>Varies for each country. Generally covers</td>
<td>Usually 2 years,</td>
<td>Applicants must be graduates who are Australian citizens and who are not</td>
</tr>
<tr>
<td></td>
<td>travel, living, tuition fees, books and</td>
<td>sometimes 3</td>
<td>older than 35 years of age. Tenable in Commonwealth countries other than</td>
</tr>
<tr>
<td></td>
<td>equipment, approved medical expenses.</td>
<td></td>
<td>Australia. Applications close with Academic Registrar in September or</td>
</tr>
<tr>
<td></td>
<td>Marriage allowance may be payable.</td>
<td></td>
<td>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</td>
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<tr>
<td></td>
<td></td>
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<td>further their studies outside Australia. Applications close mid-April</td>
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<td></td>
<td></td>
<td></td>
<td>with The Secretary, Ground Floor, Sydney School of Arts, 275c Pitt Street,</td>
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<td></td>
<td></td>
<td></td>
<td>Sydney NSW 2000.</td>
</tr>
</tbody>
</table>
# Scholarships and Prizes

## Graduate Scholarships (continued)

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General (continued)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frank Knox Memorial Fellowships tenable at Harvard University</td>
<td>Stipend of $US7000 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>Gowrie Scholarship Trust Fund</td>
<td>$4000 pa. Under special circumstances this may be increased</td>
<td>2 years</td>
<td>Applicants must be members of the Forces or children of members of the Forces who were on active service during the 1939-45 War. Applications close with the Academic Registrar by 31 October.</td>
</tr>
<tr>
<td>Harkness Fellowships of the Commonwealth Fund of New York</td>
<td>Living and travel allowances, tuition and research expenses, health insurance, book and equipment and other allowances for travel and study in the USA</td>
<td>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 1TZ, 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>
</tbody>
</table>

## Architecture

<table>
<thead>
<tr>
<th>Donor</th>
<th>Value</th>
<th>Year/s of Tenure</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Associated Hardware Manufacturers Scholarship</td>
<td>$1500 pa or such other amount as the Dean may determine</td>
<td>1 year. Where a recipient is enrolled in a higher degree program and is making satisfactory progress the scholarship may be extended subject to the availability of funds.</td>
<td>Applicants shall have qualified for the degree of Bachelor of Architecture with honours or Bachelor of Building with honours at the University of New South Wales and such graduates shall be of not more than five 5 years standing at the time of taking up the scholarship. Tenable at any approved institution overseas or in Australia. Applications to the Academic Registrar by 31 October.</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>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture (continued)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Lindsay Robertson Memorial Travel Award</td>
<td>A maximum of $1500</td>
<td>1 year</td>
<td>Candidates should be Landscape Architecture graduates of the University of New South Wales. The award is to undertake full-time graduate study or research in Landscape Architecture at an approved institution overseas or in Australia. Applications close 30 May with the Academic Registrar.</td>
</tr>
<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>Awarded to an Architecture student proceeding to graduate study. Applications close 30 September with the Academic Registrar.</td>
</tr>
</tbody>
</table>

Prizes

Undergraduate University Prizes

The following table summarizes the undergraduate prizes awarded by the University. Prizes which are not specific to any School are listed under General. All other prizes are listed under the Faculty or Schools in which they are awarded. Information regarding the establishment of new prizes may be obtained from the Examinations Section located on the Ground Floor or 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>The Sydney Technical College Union Award</td>
<td>$400.00 and Bronze Medal</td>
<td>Leadership in student affairs combined with marked academic proficiency by a graduand.</td>
</tr>
<tr>
<td>The University of New South Wales Alumni Association Prize</td>
<td>Statuette</td>
<td>Achievement for community benefit by a student in the final or graduating year.</td>
</tr>
<tr>
<td>School of Architecture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Board of Architects of NSW Prize</td>
<td>$250.00</td>
<td>Outstanding graduand in the School of Architecture</td>
</tr>
<tr>
<td>The Eric Daniels Prize in Residential Design</td>
<td>$500.00</td>
<td>The best performance in design for Residential Accommodation by a student in the Bachelor of Architecture course.</td>
</tr>
<tr>
<td>The Frank Fox Memorial Prize</td>
<td>$150.00</td>
<td>The best performance in 11.4334 Historical Research C by a student in the Bachelor of Architecture course.</td>
</tr>
<tr>
<td>The Frank W. Peplow Prize</td>
<td>$100.00</td>
<td>The best performance in Church Architecture or Design by a student in the Bachelor of Architecture course.</td>
</tr>
<tr>
<td>The James Hardie &amp; Coy. Pty Ltd Prize</td>
<td>$150.00</td>
<td>Outstanding performance in Year 1 of the Bachelor of Science (Design Studies)/ Bachelor of Architecture</td>
</tr>
</tbody>
</table>
## Undergraduate University Prizes (continued)

<table>
<thead>
<tr>
<th>Donor/Name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>School of Architecture (continued)</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| The John Connell Group Award for Excellence in Architectural Structures             | $600.00 and silver medal | The best study on a structural topic in Architectural Research 1,2 or 3 by a student who is enrolled in, has completed, or has been given exemption from, at least one of:  
11.5620 Conceptual Structural Design  
11.5621 Advanced Structural Design  
11.5622 Lightweight Structural Design                                                |
| The Morton Herman Memorial Prize                                                   | $100.00          | The best performance in 11.4336 Measured Studies of Historic Structures in the Bachelor of Architecture course.                               |
| The Royal Australian Institute of Architects Prize                                 | $250.00          | Outstanding performance in Architectural Design and related studies in the final two years of the Bachelor of Architecture course.             |
| **School of Building**                                                             |                  |                                                                                                                                            |
| The Building Services Corporation Prize                                            | $250.00          | The best thesis in the final year of the Bachelor of Building course.                                                                       |
| The Institute of Wood Science (Australian Branch) Timber in Building Prize          | Book and cheque to the value of $100 | The best performance in 35.609 Building Science 9 (Timber) by a student in the Bachelor of Building course.                                      |
| The James Hardie & Coy. Pty Ltd. Prize                                             | $100.00          | The best performance in Year 1 of the Bachelor of Building course.                                                                           |
| The Master Builders' Association of NSW Prize                                       | $350.00          | Outstanding performance in the Bachelor of Building course.                                                                                   |
| The Multiplex Constructions Prize                                                  | $1500.00         | The best performance in the major Building Construction subjects Construction 1 to 5 in the Bachelor of Building course.                   |
| The Reed Constructions Prize                                                       | $1000.00         | The most outstanding performance by a student in the Bachelor of Building course.                                                            |
| **School of Landscape Architecture**                                               |                  |                                                                                                                                            |
| The Lindsay Robertson Memorial Prize                                               | $300             | The best performance in 37.7134 Landscape Design 2 in the Bachelor of Landscape Architecture Course                                        |
| **School of Town Planning**                                                        |                  |                                                                                                                                            |
| The John Shaw Memorial Prize                                                       | $400.00          | The best thesis in the Bachelor of Town Planning course.                                                                                     |
| The New South Wales Department of Environment and Planning Prize                   | $350.00          | The best performance in Year 5 of the Bachelor of Town Planning course.                                                                     |
| The New South Wales Local Government Association of Planners Prize                  | $150.00          | The best thesis related to Local Government planning in the final year of the Bachelor of Town planning course.                                |
| The Royal Australian Planning Institute (N.S.W Division) Prize                     | $150.00          | The best performance by a student in Year 3 of the Bachelor of Town Planning course.                                                         |
Graduate University Prizes

The following table summarizes the graduate prizes awarded by the University.

<table>
<thead>
<tr>
<th>Donor/name of Prize</th>
<th>Value $</th>
<th>Awarded for</th>
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<tbody>
<tr>
<td><strong>School of Building</strong></td>
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<tr>
<td>The Alex Rigby Prize</td>
<td>$250.00</td>
<td>The best overall performance in the Master of Building Management Course.</td>
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<tr>
<td>The T.W. Crow Associates Prize</td>
<td>$300.00</td>
<td>The best performance by a student in Year 2 of the Master of Project Management course.</td>
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<tr>
<td>Master Builders' Association of NSW Prize</td>
<td>$1000</td>
<td>The best performance in the Master of Construction Management Course</td>
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</tbody>
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## Student's Timetable

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<thead>
<tr>
<th>Time</th>
<th>Monday</th>
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</tbody>
</table>
The University of New South Wales Kensington Campus

**Theatres**
- Biomedical Theatres E27
- Central Lecture Block E19
- Central Lecture Block (Western Grounds) H3
- Rex Vowels Theatre F17
- Keith Burrows Theatre J14
- Main Building (Physics) Theatre K14
- Mathews Theatre D23
- Parade Theatre E3
- Science Theatre F13
- Sir John Clancy Auditorium C24

**Buildings**
- Affiliated Residential Colleges
  - New (Anglican) L6
  - Shalom (Jewish) N9
  - Waranne M7
- Applied Science F10
- Architecture H14
- Arts (Morven Brown) C20
- Banks F22
- Barker Street Gatehouse N11
- Bassler College C18
- Biological Sciences D26
- 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
- Io Myers Studio D9
- John Goodsell (Commerce and Economics) F20
- Kanga's House O14
- Kensington Colleges C17 (Office)
- Bassler 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
- Bookshop G17
- Building H14
- Careers and Employment F15
- Cashier's Office C22
- Chaplains E15
- Chemical Engineering and Industrial Engineering F10
- Chemistry E12
- Child Care Centres N8, O14
- Civil Engineering H20
- Commerce and Economics (Faculty Office) F20
- 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
- Landscape 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
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.