S 378.94405



The University of New South Wales

Architecture

1991 Faculty Handbook







The University of New South Wales

Architecture

1991 Faculty Handbook

The address of The University of New South Wales is:

P.O. Box 1, Kensington 2033 New South Wales Australia

Telephone: (02) 697 2222

Telegraph: UNITECH, SYDNEY

Telex: AA26054



Published by the Publications Section, The University of New South Wales Printed by Bridge Printery Pty Ltd, Rosebery, NSW 2018

Faculty editor: Brian Newell

Subjects, courses and any arrangements for courses including staff allocated, as stated in the Calendar or any Handbook or any other publication, announcement or advise 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 1990, but may be amended without notice by the University Council.

Contents

| Calendar of Dates | |
|--|-----|
| Staff | . 3 |
| Foreword | . 7 |
| Faculty Information | 8 |
| Some People Who Can Help You | ់ត្ |
| Enrolment Procedures | |
| Rules for Progression | . 0 |
| Library Facilities | . 9 |
| Faculty Laboratories | . 9 |
| Package Chuke and Casialize | . 9 |
| Student Clubs and Societies | 10 |
| General Education Requirement | 10 |
| Undergraduate Study | 13 |
| School of Architecture | 13 |
| Architecture Degree Courses | 13 |
| Bachelor of Architecture | 12 |
| Bachelor of Science (Architecture) | 10 |
| Schedule of Subjects | 14 |
| BArch 3260 15, BSc(Arch)3265 18 | 15 |
| Department of Industrial Arts | 20 |
| School of Building | 20 |
| Schedule of Subjects | 20 |
| Schedule of Subjects | 21 |
| Department of Industrial Design | 22 |
| Schedule of Subjects | 23 |
| School of Landscape Architecture | 24 |
| Schedule of Subjects | 25 |
| School of Town Planning | 26 |
| Schedule of Subjects | 26 |
| Undergraduate Study: Subject Descriptions | |
| Identification of Subjects by Number | 29 |
| | |
| Architecture | 32 |
| Theory of Architecture 33, History of Architecture 34, | |
| Architectural Construction 35, Architectural Structures 36, | |
| Environmental Control 36, Architectural Practice 37, | |
| Other Required Studies 37 Electives 38, General Education Subjects 42, | |
| | |
| Construction Stream 42, Building Science Stream 44, | 42 |
| Management Stream 45, Building Economics Stream 46, | |
| Other Subjects 47, | |
| | 48 |
| Design Studies 48, Design Skills 48, | |
| Design Theory 49, Ergonomics 49, Industrial Exceptions 50, Science and Englanding 50, | |
| Industrial Experience 50, Science and Engineering 50, Commerce 51 | |
| | 52 |
| Core Subjects 52, Related Subjects 53, | 52 |
| Planning Electives 55, Subjects Offered to Other Schools 56 | |

| Landscape Architecture | |
|---|-----------|
| Botany | 59 |
| Mines | 59 |
| Geography | 59 |
| Graduate Study | 31 |
| Graduate Enrolment Procedures | 61 |
| Higher Degrees - Research | 31 |
| Summary of Conditions for the Award of a Masters Degree | 31 |
| Graduate Courses | 32 |
| Graduate School of the Built Environment | 32 |
| 1120/1121 Doctor of Philosophy (PhD)62 | |
| 2201 Master of Architecture (MArch)63 | |
| 2240 Master of the Bullt Environment (MBEnv)63 8100 Master of Science (Acoustics)(MSc/Acoustics)63 | |
| 9130 Master of the Built Environment (Building Conservation)/MBEnv)64 | |
| Department of Industrial Design | <u>35</u> |
| 8145 Master of Industrial Design (MID)65 8146 Master of Science (Industrial Design)(MSc(IndDes)65 | |
| School of Architecture | 67 |
| 1130 Doctor of Philosophy (PhD)67 | |
| 2200 Master of Architecture (MArch)67 | |
| 8140 Master of Architectural Design (MArchDes)67 2206 Master of Science (by Research)68 | |
| | 68 |
| 1140 Dectro of Philosophy (PhD)68 | |
| 2210 Master of Building (MBuild)68 | |
| 8116 Master of Project Management (MProjMgt)68 8125 Master of Construction Management (MConstMgt)69 | |
| | 69 |
| 1160 Doctor of Philosophy (PhD)70 | |
| 2220 Master of Landscape Architecture (MLArch)70 | |
| 8135 Master of Landscape Planning (MLP) 70 5215 Graduate Diploma in Landscape Planning (GradDipLP)70 | |
| School of Town Planning | 71 |
| 1150 Doctor of Philosophy (PhD)71 2230 Master of Town Planning (by Research)(MTP)71 | |
| Graduate Study: Subject Descriptions | 73 |
| Identification of Subjects by Number | 74 |
| Architecture | 76 |
| Building | 76 |
| Town Planning | 78 |
| Landscape Architecture | 79 |
| Graduate School of the Built Environment | 80 |
| Department of Industrial Design | 81 |
| | |
| Graduate Study: Conditions for the Award of Higher Degrees | 83 |
| Dector of Philosophy | 85 |
| Master of Architectural Design | 87 |
| Master of Architecture, Master of Building, Master of the Built Environment, Master of | |
| Landscape Architecture and Master of Town Planning | 87 |
| Master of Project Management | 89 |
| Master of the Built Environment (Building Conservation), Master of Industrial Design, | |
| Master of Science (Acoustics), and Master of Science (Industrial Design) | 90 |
| Master of Engineering and Master of Science | 91 |
| Master of Engineering, Master of Science and Master of Surveying without supervision | 93 |
| Master of Landscape Planning | 94 |
| Graduate Diploma | 95 |
| Scholarships and Prizes | 97 |
| Scholarships | 97 |
| Undergraduate | 97 |
| Graduate | 98 |
| Prizes | 02 |
| Undergraduate | 02 |
| Graduate | 03 |

Calendar of Dates

The academic year is divided into two sessions, each containing 67 days for teaching. There is a recess of approximately six weeks between the two sessions and there are short recesses of one week within each of the sessions.

Session 1 commences on the Monday nearest 1 March.

| | 1991 | 1992 |
|------------------------------|----------------------------|----------------------------|
| Session 1 (67 teaching days) | 4 March to 28 March | 2 March to 16 April |
| Recess: | 29 March to 7 April | 17 April to 26 April |
| | 8 April to 14 June | 27April to 10 June |
| Study Recess: | 15 June to 20 June | 11 June to 16 June |
| | | |
| Examinations | 21 June to 9 July | 17 June to 3 July |
| Midyear Recess: | 10 July to 28 July | 4 July to 26 July |
| Session 2 (67 teaching days) | 29 July to 27 September | 27 July to 25 September |
| Recess: | 28 September to 7 October | 26 September to 5 October |
| | 8 October to 6 November | 6 October to 4 November |
| Study Recess: | 7 November to 12 November | 5 November to 10 November |
| Examinations | 13 November to 29 November | 11 November to 27 November |

Faculties other than Medicine

Important Dates for 1991

January

- T 1 New Year's Day Public Holiday
- Th 3 Last day for acceptance of applications by Office of the Admissions Section for transfer to another undergraduate course within the University.
- W 9 Last day for applications for review of assessment
- M 14 Term 1 begins Medicine IV
- M 21 Term 1 begins Medicine V
- S 26 Australia Day Public Holiday

February

- T 5 Enrolment period begins for new undergraduate students and undergraduate students repeating first year
- M 11 Re-enrolment period begins for second and later year undergraduate and graduate students enrolled in formal courses Students should consult the "Re-enrolling 1991" leaflet for their course for details.

| Marc | h | |
|------|------|---|
| F | 1 | Last day for acceptance of enrolment by new and re-enrolling students. (Late fee payable thereafter if enrolment approved |
| М | 4 | Session 1 begins - all courses except Medicine IV and V |
| F | 15 | Last day applications are accepted from students to enrol in Session 1 or whole year subjects. |
| F | 29 | Good Friday - Public Holiday |
| | | Mid-session Recess begins |
| S | 30 | Easter Saturday - Public Holiday |
| Su | 31 | HECS Census Date for Session 1 |
| Apri | 1 | |
| M | 1 | Easter Monday - Public Holiday |
| Th | 25 | Anzac Day - Public Holiday |
| May | | |
| Т | 14 | Publication of Provisional Timetable for June examinations |
| W | 22 | Last day for students to advise of examination clashes |
| June | | |
| Т | 4 | Publication of Timetable for June Examination |
| M | 10 | Queen's Birthday - Public Holiday |
| F | 14 | Session 1 ends |
| S | 15 | Study Recess begins |
| Th | 20 | Study Recess ends |
| F | 21 | Examinations begin |
| July | | Furnications and |
| T | 9 | Examinations end |
| Su | 28 | Midyear Recess ends |
| М | 29 | Session 2 begins |
| Aug | | Last day employed an accounted from students to optical in Section 2 subjects |
| F | 9 | Last day applications are accepted from students to enrol in Session 2 subjects |
| S | 31 | HECS census date for Session 2 |
| | temb | |
| F | 27 | Closing date for applications to the Universities Admissions Centre |
| S | 28 | Mid-session Recess begins |
| Octo | | |
| M | 7 | Labour Day - Public Holiday |
| | | Mid-session Recess ends |
| Т | 8 | Publication of provisional timetable for November Examinations |
| W | 16 | Last day for students to advise of examination clashes |
| Т | 29 | Publication of timetable for November examinations |
| | embe | |
| W | 6 | Session 2 ends |
| Th | 7 | Study Recess begins |
| Т | 12 | Study Recess ends |
| w | 13 | Examinations begin |
| F | 29 | Examinations end |

December

- W 25 Christmas Day Public Holiday
- Th 26 Boxing Day Public Holiday

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

Presiding Member

Stephen Harris

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

Associate Professor of Architecture and Head of School John Albyn Ballinger, BArch Adel., FRAIA

Professors of Architecture

Philip Cox, BArch Dip TCP *Syd.*, AO, FRAIA Jon Lang, BArch *Witw.*, MRP, PhD *Cornell* Paul Stanhope Reid, BArch *Auck.*, MArch *Mich.*, ARAIA

Visiting Professors

Richard Eric Apperly, BArch *Syd.*, MArch *N.S.W.*, ARAIA Russell Callum Jack, MArch *N.S.W.*, ASTC, FRAIA Laszlo Peter Kollar, MArch PhD *N.S.W.*, ASTC Lawrence Nield, BArch *Syd.*, MLitt *Camb.*, FRAIA, MRIBA, MISA Nancy Claire Ruck, BArch *N.Z.*, MBdgSc *Syd.*, PhD *N.S.W.*, FIES, FRAIA, ANZIA

Associate Professors

Peter Thomas Oppenheim, BArch *Cape T.*, MArch PhD *N.S.W.* Peter Reginald Proudfoot, BArch *Syd.*, MArch *Penn.*, PhD *N.S.W.*, Rome Scholar, ARAIA Vinzenz Franz Josef Sedlak, DiplingArch *T.U.*, Graz., MPhII *Sur.* 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 Donald McArthur Godden, MSc N.S.W. Paul-Alan Johnson, BArch Syd., DipCD PhD N.S.W., FRAIA Bruce Herbert Judd, BArch PhD Syd., ARAIA William Richard Lawson, BSc PhD N.S.W., MAPS, MAIHR 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. Barry Vivian Wollaston, BArch Syd., MArch N.S.W., FRAIA

Lecturers

Robert John Bryant, BArch N.S.W., MTCP Syd., ASTC, DipEnvStud Macq., MRAPI, ARAIA Geoffrey Lindsay Dwyer, FRAIA Richard Grantley Fitzhardinge, DipArch Kingston on Thames Poly., MArch Calif., ARIBA, ARAIA

Elizabeth Ann Howard, BArch Syd., BA Macq. Peter Kohane, BArch MArch Melb., MSc Penn. Desley Olwyn Luscombe, BSc(Arch) MArch 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.

Philip Taylor, BArch N.S.W., FRAIA

Tutors

Anne Peden, BArch N.S.W. Stephen Peter, BArch DipArchComp Syd.

Administrative Assistant

Harold Percy Chambers, BA S.Pac.

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 *Manc.*, CPEng, 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 PhD *N.S.W.*, FAIB Clyde Donald Smythe, MBuild *N.S.W.*, ASTC, MAIB

Lecturers

Philip John Davenport, LLB *Syd.* Ojars Indulis Greste, BE ME *N.S.W.*, DEng *Calif.* Barry Frederick Reece, BA *N.E.*, MA *Essex* James C. Senogles, MA *Oxon*, MBA *Cape T.* Robert Vaughan Zikmann, BScBuild *Pret.*, MDP Build. Proj. Mngt *S.A.*, M. Proj. Mngt. *N.S.W.*, MISABSP

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, FIArbA, AAUQ, LGE, FAIB, FAIM, FSLE, FCDA, FASA, CPA

School of Landscape Architecture

Professor of Landscape Architecture and Head of School James Weirick, MLA Harv.

Associate Professor

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

Senior Lecturer

Helen Beatrice Armstrong, BSc Syd., MLArch 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, BLArch *N.S.W.*, AAILA Elizabeth Mossop, BLArch *N.S.W.*, AAILA Alison Todd, BSc *Waikato*

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., FRAPI Peter Ashton Murphy, BA Syd., PhD Macq.

Lecturers

Andrew Harley Heron Kelly, BTP LLB *N.S.W.* Jill Lang, BA *Qld.*, MTCP *Syd.* Tamas Lukovich, MCEng MArch PhD *Budapest*

Fulbright Senior Scholar

Raymond Joseph Burby, BA George Washington MRP, PhD N. Carolina

Graduate School of the Built Environment

Professor of Architecture and Head of School

John Christopher Haskell, DipTP Lond., MArch Natal, Rome Scholar FRSA

Visiting 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, AAILA 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 DipID(Eng) C.S.A.D., MA R.C.A., FRSA, FDIA

Senior Lecturer

Heinz Luettringhaus, DipIDes(Ind.Des) Essen, DID, MDIA

Lecturer

Johnathon Talbot, BSc DipEd N.S.W.

Visiting Fellow

Wolfgang Köhler, MA(Des) U.T.S., DiplEngMech T.U., Karlsruhe, FIA(Aust)

6

•

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 4771.

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

Associate Professor John Ballinger, School of Architecture Room 100, Architecture Building, Extension 4786.

Professor James Weirick, School of Landscape Architecture Room 208, Old Main Building, Extension 4844.

Mr Clyde Smythe, School of Building Room 409, Architecture Building, Extension 4823.

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.

Mr John Redmond, Department of Industrial Design, Room 211, Sir Robert Webster Building, Extension 4849.

It is University and Faculty 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 1991 should obtain a copy of the free booklet *Architecture Enrolment Procedures 1991* 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 1991.

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, located on Levels 6 and 7 of the Library tower, caters for the information needs of staff, postgraduate students and undergraduates in the pure and applied sciences, engineering and architecture.

Physical Sciences Library materials are listed in the Library's online catalogues, microfiche book finding list or microfiche serials catalogue.

The Library provides reference, reader assistance and reader education services, including interlibrary loan, online search and CD-ROM facilities. Photocopying facilities are also available.

Trained Library staff are always available on Level 7 to assist readers with their enquiries.

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.
- The Audio-Visual section, contains multimedia, videos

and cassette tapes of lectures.. The Audio-Visual section has wired study carrels and cassette players for student use. The map collection is also housed here. Level 3.

 The Reader Education program provides orientation tours and introductory library research method lectures to students.

Faculty Laboratories

Research Laboratories

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

Condensation behaviour of double-glazed windows.

Transfer of heat and moisture through wall elements.

Penetration of moisture into and through concrete.

Development of methods of extending the use of solar energy in domestic architecture.

Study of noise transmission in buildings.

Investigation of traffic noise measurement, analysis and prediction.

The effectiveness of artificial luminous environments.

The Building Research Centre is now located in the King St. laboratories and offers additional services to the building industry.

Computing Facilities Laboratory

The Faculty has a number of computing laboratories available to undergraduate and postgraduate students. This includes 2 PC laboratories, each containing 15 286-based machines and supporting a variety of commercial packages including word processing, databases, spreadsheets, programming tools and specialist application programs. A CAD laboratory, consisting 10 high performance graphics workstations (SUN SPARCstation 1), provides a state-of-the-art facility for computer-aided drafting, modelling and 3D visualisation of building forms. In addition, the Faculty runs a VAX 11/750 minicomputer providing access to a pen plotter, a high resolution camera device and a gateway to the University's campuswide network. Through the ever-expanding network capabilities within the Faculty, staff and students now have access to the international electronic mail network and a variety of mainframe computers (mainly DEC and IBM) that

can be used for compute-intensive tasks.

Active research is underway in the following areas:

- The use of computer graphics and other computing techniques in architectural design and teaching.
- The development and use of management information systems in the building industry.
- Analysis and development of computer methods in landuse planning and design.
- Use of computers in transportation and strategic planning, social analysis and census data interpretation.

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.

Students With Disabilities

The University of New South Wales has a policy of equal opportunity in education and seeks wherever possible to ensure maximum participation of students with disabilities.

The University offers a range of assistance: examination support; specialized equipment; educational support; parking provisions; library assistance.

A Resource Guide for students and staff with disabilities and a map showing wheelchair access is available from the Adviser to Students with Disabilities, the EEO Unit, the Library and the Students Union.

It is advisable to make contact with the Adviser to Students with Disabilities prior to, or immediately following enrolment, to discuss your support needs.

The Adviser can be contacted on 697-5418 or at Building F15 (Careers & Counselling Unit).

General Education Requirement

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

Among its objectives, the General Education program

provides the opportunity for students to address some of the key questions they will face as individuals, citizens and professionals.

The program requires students to undertake studies in three categories of the program:

CATEGORY A. An introduction in non-specialist terms to an understanding of the environments in which humans function.

CATEGORY B. An introduction to, and a critical reflection upon, the cultural bases of knowledge, bellef, language, identity and purpose.

CATEGORY C. An introduction to the development, design and responsible management of the systems over which human beings exercise some influence and control. This category is required only of students in four-year professional and honours programs.

The key questions addressed by the Program are:

CATEGORY A: The External Context

Course requirement: 2x28 hr subjects

- 1. How do we, can we, generate wealth? (Australia and the Development of the World Economy)
- 2. How can we, ought we, distribute wealth, status and power? (Human Inequality)
- 3. What steps should we take, and what policies should we adopt, in science and technology? (Science and Civilization)
- What effects do our wealth generating and techno-scientific activities have on the environment? (Ecosystems, Technology and Human Habitation)
- 5. What are the effects of the new mass media of communications? (Mass Media and Communications)
- 6. What are the key social and cultural influences on Australia today? (Australian Society and Culture)

CATEGORY B: The Internal Context of Assumptions And Values

Course requirement: 2x28 hr subjects.

- 1. How do we define ourselves in relation to the larger human community? (The Self and Society)
- 2. How do our conceptions of human nature and well being influence both individual and social behaviour? (Changing Conceptions of Human Nature and Well-Being)
- 3. What are the prevailing conceptions of and challenges to human rationality? (The Pursuit of Human Rationality)
- How do language, images and symbols function as means and media of communications (The Use of Language, Images and Symbols)
- 5. What is the impact of the computer on human society and culture? (The Computer: Its Impact, Significance and Uses)
- 6. Which systems of belief and configurations of values are most conducive to the survival and enhancement of the human species and the planet earth? (Beliefs, Values and the Search for Meaning)

CATEGORY C: An Introduction To The Design And Responsible Management Of The Human And Planetary Future

The central question to be addressed by students in a systematic and formal way is:

For what purpose or purposes will I use my intellectual skills, my expertise, or my technological prowess?

Will these abilities be used, for example:

(i) in a creative and innovative way?

(ii) to widen the circle of human participation in the benefits they bring?

(iii) to break down the barriers of exclusion and discrimination?

(iv) to enhance the prospects for survival of the human species?

(v) to enhance the capacity of the planet earth to sustain life?

The exact form in which Category C will be satisfied is still being decided and should be finalized during 1990. This could involve, however, a slight change to the later years of each of the courses. There are differing requirements for students commencing before, in, 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 Should Consult The Appropriate Course Authority or The Centre for Liberal and General Studies in Morven Brown Building, Room G58.

•

Undergraduate Study

The Faculty of Architecture consists of the School of Architecture, the School of Building, the School of Landscape Architecture, the School of Town Planning and the Graduate School of the Built Environment and the Department of Industrial Design. 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

Associate Professor John Ballinger

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.Environmental 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.

3265 Bachelor of Science (Architecture) Course

Bachelor of Science (Architecture) B Sc(Arch)

This course provides architectural education for those whose interests and ambitions lie outside the field of professional practice. It offers an opportunity to select subjects on the basis of a student's individual interests.

General Description of the Course

The course may be completed in three years of full-time study. The first year is taken in common with BArch students. In each of the following three sessions an approved special research programme is undertaken followed by a research project in the final session. A selection of subjects is taken from those offered by the School of Architecture with the option of subjects totalling up to forty five credit points from outside the School.

General Education subjects totalling twenty credit points must be taken during the course.

Honours

The Bachelor of Science (Architecture) degree may be awarded with honours after the successful completion of a two-semester honours program following the completion of theBSc(Arch) program, and in accordance with current Faculty regulations. Honours are Class 1 or Class 2 Division 1 or Class 2 Division 2.

The subjects in these courses are offered on a credit point basis which indicates the level of committment and workload. While there is normally a relationship between credit points and class contact hours, this may not necessarily be so in all subjects.

B.Arch. Course 3260: Schedule of Subjects

| No. | Subject Name | Credit Points | Prerequisites |
|------------------------|---|-----------------|-------------------------------|
| YEAR 1 (| SESSIONS 1 & 2) | | |
| ARCH6201 | Architectural Computing 1 (S2) | 6 | Nil |
| ARCH6301 | Theory of Architecture 1 | 6 | Nil |
| ARCH6401 | History of Architecture 1 | 9 | Nii |
| ARCH6501 | Architectural Construction 1 | 9 | Nił |
| ARCH6601 | Architectural Structures 1 | 6 | Nil |
| ARCH6701 | Environmental Control 1 | 9 | Nil |
| Design Sta | age 1 | | |
| ARCH6101 | Design Studio 1 | 24 | Nii |
| ARCH6211 | Communication Seminar 1 | 18 | Nil |
| ARCH6311 | Theory Seminar 1 | 9 | Nil |
| ARCH6511 | Construction Seminar 1 | 12 | Nil |
| ARCH6611 | Structures Seminar 1 | 6 | Nil |
| ARCH6711 | Environmental Control Seminar 1 | <u>6</u> 120 | Nil |
| YEAR 2 (| SESSIONS 1 & 2) | | |
| ARCH6302 | Theory of Architecture 2 | 6 | ARCH6301 |
| ARCH6402 | History of Architecture 2 | 12 | ARCH6401 |
| ARCH6502 | Architectural Construction 2 | 12 | ARCH6501 |
| ARCH6602 | Architectural Structures 2 | 6 | ARCH6601 |
| ARCH6702 | Environmental Control 2 | 12 | ARCH6701 |
| | General Education Electives | 10 | Nil |
| Design Sta | | | |
| | Design Studio 2 | 30 | ARCH6101, ARCH6501, |
| | Communication Seminar 2 | 12 | ARCH6601, ARCH6701, |
| ARCH6312 | Theory Seminar 2 | 9 | four from |
| ARCH6512 | Construction Seminar 2 | 9 | ARCH6211, ARCH6311, |
| ARCH6612 | Structures Seminar 2 | 6 | ARCH6511, ARCH6611, |
| ARCH6712 | Environmental Control Seminar 2 | 6 | ARCH6711. |
| VEAD 3/ | SESSIONS 1 & 2) | 130 | |
| • | • | ¢ | ADOLISSOO |
| | Theory of Architecture 3 History of Architecture 3 | 6 | ARCH6302 |
| ARCH6403 | • | 12 | ARCH6402 |
| ARCH6503 ARCH6603 | Architectural Construction 3 | 12 | ARCH6502 |
| ARCH6703 | Architectural Structures 3 | . 6 | ARCH6602 |
| Ancho/03 | Environmental Control 3 | 12 | ARCH6702 |
| Dealan St | General Education Electives | 10 | Nil |
| Design Sta ARCH6103 | ige 3 Design Studio 3 | 30] | ARCH6102, ARCH6502, |
| ARCH6213 | Communication Seminar 3 | 12 | ARCH6602, ARCH6702, |
| ARCH6313 | Theory Seminar 3 | 9 | four from |
| | Construction Seminar 3 | 9 | ARCH6212, ARCH6312, |
| | Structures Seminar 3 | 6 | ARCH6512, ARCH6612, |
| | Environmental Control Seminar 3 | 6 | ARCH6712, ARCH6012, ARCH6712, |
| | | 130 | |

B.Arch. Course 3260: Schedule of Subjects

| No. | Subject Name | Credit Points | Prerequisites |
|----------------------|--|-----------------|---|
| YEAR 4 (| SESSION 1) | | |
| Either | | | |
| ARCH6804 | Architectural Practice 1 | 6 | ARCH6103 |
| | Elective Subjects* | 24 | |
| Design Sta | age 4 | ~ ~ | ADOLICIOS ADOLICEOS ADOLICEOS ADOLICIOS |
| | Design Studio 4 | 24 | ARCH6103, ARCH6503, ARCH6603, ARCH6703 four from |
| ARCH6114 ARCH6514 | Design Seminar 1 Technology Seminar 1 | 3 | ARCH6213, ARCH6313, ARCH6513, ARCH661; |
| | rechnology Seminal T | ۰ <u> </u> | ARCH6713. |
| | | 60 | |
| Qr | | | |
| ARCH6904 | Practical Experience | | ARCH6103 |
| YEAR 4 (| SESSION 2) | | |
| Option rema | aining from Session 1. | | |
| YEAR 5 (| SESSION 1) | | |
| ARCH6205 | Architectural Computing 2 | 6 | ARCH6201 |
| | Elective Subjects * | 24 | |
| | General Education Elective | 5 | Nil |
| Design St | | 04] | |
| | Design Studio 5 Design Seminar 2 | 24 3 — | ARCH6104, ARCH6114, |
| ARCH6515 | • | | ARCH6514, ARCH6904. |
| | | <u>3</u> 65 | |
| YEAR 5 (| SESSION 2) | | |
| ARCH6806 | Architectural Practice 2 | 6 | ARCH6804 |
| | Elective Subjects * | 24 | |
| Design St | | | |
| | Design Studio 6 | 24 | ADOLIO105 ADOLIO115 ADOLIO515 |
| | Design Seminar 3 Technology Seminar 2 | 3 | ARCH6105, ARCH6115, ARCH6515. |
| ARCHODIO | Technology Seminar 3 | <u>3</u> 60 | |
| YEAR 6 (| SESSION 1) | | |
| ARCH6807 | Architectural Practice 3 | 6 | ARCH6806 |
| | Elective Subjects * | 24 | |
| And | _ | | |
| Design St | | o | |
| ARCH6107 | Design Studio 7 Design Seminar 4 | 24 | ARCH6106, ARCH6116, ARCH6516, ARCH690 |
| ARCH6517 | • | 3 | |
| Qr | tormology ourman 4 | · | |
| ARCH6127 | Major Design Project | 30 | By approval |
| Qr | | | |
| ARCH6907 | Major Research Project | <u>30</u> 60 | By approval |

B.Arch. Course 3260: Schedule of Subjects

| No. Subject N | lame Credit Poin | ts Prerequisites |
|---------------|------------------|------------------|
|---------------|------------------|------------------|

* Elective Subjects

A range of electives will be offered each year selected from the list below. Generally, the minimum enrolment for an elective to be offered will be 12 students.

The listing for electives includes an allowance for 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.

| | Computer Graphics Programming 1 | 6 | ARCH6103 |
|----------|---|----|-------------------------------|
| ARCH5221 | | 12 | ARCH5220 |
| | Computer Applications 1 | 12 | ARCH6103 |
| | Computer Applications 2 | 6 | ARCH6103 |
| | Advanced Graphics | 6 | ARCH6103 |
| ARCH5228 | • | 6 | ARCH6103 |
| ARCH5229 | Ū. | 6 | ARCH6103 |
| ARCH5230 | v | 6 | ARCH6103 |
| ARCH5231 | Rendering | 6 | ARCH6103 |
| | Theory of Form | 6 | ARCH6103 |
| | Criticism and Evaluation | 6 | ARCH6103 |
| | Imagination | 6 | ARCH6103 |
| | Spirit in Architecture | 6 | ARCH6103 |
| | Building Conservation | 6 | ARCH6103 |
| ARCH5421 | - | 6 | ARCH6103 |
| | Great Architects | 6 | ARCH6103 |
| ARCH5423 | The City - Sydney | 6 | ARCH6103 |
| | Urban Design | 6 | ARCH6103 |
| | Landscape Design | 6 | ARCH6103 |
| | The Modern Movement in | 6 | ARCH6103 |
| | Architecture | | |
| ARCH5427 | Post Modernism in Architecture | 6 | ARCH6103 |
| ARCH5520 | Advanced Building Materials (Ceramics) | 6 | ARCH6103 |
| ARCH5521 | | 6 | ARCH6103 |
| ARCH5522 | | 6 | ARCH6103 |
| ARCH5523 | Advanced Building Materials (Organics) | 6 | ARCH6103 |
| ARCH5524 | Advanced Building Materials (Metals) | 6 | ARCH6103 |
| ARCH5620 | Conceptual Structural Design | 12 | ARCH6103, ARCH6503, ARCH6603. |
| ARCH5621 | Advanced Structural Design | 12 | ARCH5620 |
| ARCH5622 | Lightweight Structural Design | 12 | ARCH6503, ARCH6603, ARCH6104. |
| ARCH5720 | Design for Energy Efficiency | 6 | ARCH6103 |
| ARCH5721 | Design of Lighting | 6 | ARCH6103 |
| ARCH5722 | Acoustics Studies | 6 | ARCH6103 |
| ARCH5723 | Applied Environmental Psychology | 6 | ARCH6103 |
| ARCH5820 | Building Economics & | 6 | ARCH6103 |
| | Development | | |
| ARCH5821 | Project Management | 6 | ARCH6103 |
| ARCH5822 | The Architect and the Law | 6 | ARCH6103 |
| ARCH5823 | Quality Management Concepts | 6 | ARCH6806 |
| | | | |

| No. | Subject Name | Credit Points | Prerequisites |
|----------|-------------------------------------|---------------|-------------------------|
| ARCH5824 | Quality Management Practice | 6 | ARCH5823, ARCH6807. |
| ARCH5920 | Architectural Research 1 | 12 | ARCH6103 |
| ARCH5921 | Architectural Research 2 | 12 | ARCH6103 |
| ARCH5922 | Architectural Research 3 | 12 | ARCH6103 |
| ARCH5930 | Science Seminar 1 | 12 | ARCH6101 |
| ARCH5931 | Science Seminar 2 | 6 | ARCH5930 or equivalent. |
| ARCH5940 | Theory of Architectural Computing 1 | 6 | ARCH6201 |
| ARCH5941 | Theory of Architectural Computing 2 | 6 | ARCH5940 |
| ARCH5942 | Architectural Computing Seminar | 15 | ARCH6205 |
| ARCH5950 | Industrial Archaeology 1 | 6 | ARCH6103 |
| ARCH5951 | Industrial Archaeology 2 | 6 | ARCH5950 |
| ARCH5952 | Traditional Technology 1 | 6 | ARCH6103 |
| ARCH5953 | Traditional Technology 2 | 6 | ARCH6103 |
| ARCH6906 | Dissertation | 18 | ARCH6103 |

BSc (Arch) Course 3265: Schedule of Subjects

| No. | Subject Name | Credit Points | Prerequisites |
|-----|--------------|---------------|---------------|
| | | | |

.

YEAR 1 (SESSIONS 1 & 2)

| ARCH6201 | RCH6201 Architectural Computing 1(S2) | | Nil |
|------------|---------------------------------------|-----|-----|
| ARCH6301 | Theory of Architecture 1 | 6 | Nil |
| ARCH6401 | Hisory of Architecture 1 | 9 | Nil |
| ARCH6501 | Architectural Construction 1 | 9 | Nil |
| ARCH6601 | Architectural Structures 1 | 6 | Nil |
| ARCH6701 | Environmental Control 1 | 9 | Nil |
| Design Sta | age 1 | | |
| ARCH6101 | Design Studio 1 | 24 | Nil |
| ARCH6211 | Communication Seminar 1 | 18 | Nit |
| ARCH6311 | Theory Seminar 1 | 9 | Nil |
| ARCH6511 | Construction Seminar 1 | 12 | Nil |
| ARCH6611 | Structures Seminar 1 | 6 | Nil |
| ARCH6711 | Environmental Control seminar 1 | 6 | Nil |
| | | 120 | |

Undergraduate Study

| YEAR 2 - (S ARCH5915 Spe Chu Gen YEAR 3 - (S ARCH5916 Spe ARCH5912 Res Chu | | | |
|--|----------------------------|-------------|---|
| YEAR 2 - (S ARCH5915 Spe VEAR 3 - (S ARCH5916 Spe ARCH5912 Res Chr | SESSION 1) | | |
| Gen YEAR 2 - (S ARCH5915 Spe Cha Gen YEAR 3 - (S ARCH5916 Spe ARCH5912 Res Cha | ecial Research Programme 1 | 15 | Head of School's approval |
| YEAR 2 - (S ARCH5915 Spe Cha Gen YEAR 3 - (S ARCH5916 Spe ARCH5912 Res Cha | oice of B.Arch. subjects | 45 | Head of School's approval |
| ARCH5915 Spe Cha Gen YEAR 3 - (S ARCH5916 Spe ARCH5912 Res Cha | neral Education Elective | 5 | Nil |
| ARCH5915 Spe Cha Gen YEAR 3 - (S ARCH5916 Spe ARCH5912 Rea Cha | | 65 | |
| Cha Gen YEAR 3 - (S ARCH5916 Spe ARCH5912 Rea Cha | SESSION 2) | | |
| Gen YEAR 3 - (S ARCH5916 Spe ARCH5912 Rea Cha | ecial Research Programme 2 | 15 | ARCH5914 or equivalent, Head of School's approval. |
| YEAR 3 - (S ARCH5916 Spe ARCH5912 Rea Cha | oice of B.Arch. subjects | 45 | Head of School's approval |
| ARCH5916 Spe ARCH5912 Rea Cha | neral Education Elective | 5 | Nil |
| ARCH5916 Spe ARCH5912 Rea Cha | | 65 | |
| ARCH5912 Res Cho | SESSION 1) | | |
| Che | ecial Research Programme 3 | 15 | ARCH5915 or equivalent, Head of School's approval. |
| | search Methods | 6 | ARCH6101 |
| - | olce of B.Arch. subjects | 39 | Head of School's approval |
| Gei | neral Education Elective | 5 | Nil |
| | | 65 | |
| YEAR 3 - (SE | ESSION 2) | | |
| ARCH5917 Res | search Project | 24 | ARCH5916 or equivalent. |
| Cho | oice of B.Arch. subjects | 36 | Head of School's approval |
| Ger | neral Education Elective | 5 | Nil |
| | | 65 | |
| YEAR 4 - (S | SESSION 1) (Optional Ho | nours year) | |
| ARCH5918 Hor | nours Project 1 | 60 | ARCH5917 or equivalent. |
| | | 60 | |
| YEAR 4 - (SE | ESSION 2) | | |
| ARCH5919 Hor | nours Project 2 | 60 | ARCH5918 |
| | | 60 | |

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 3330

Bachelor of Building BBuild

The Bachelor of Building is a four year full-time course which allows the students to specialize for careers in Construction and Project Management, Quantity Surveying, Property Development and Property Management.

This course prepares students for professional and executive employment within one of Australia's largest industries, the construction 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 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 and one half General Education subjects (56 hours catagory A subject, 56 hours catagory B subject and 28 hours catagory C subject). Refer to the General Education Handbook for details.

Progress through the Course

Progression through the course is by subject, provided that:

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

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

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

Practical Experience

Prior to graduation, students are required to have gained a minimum of 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 BLDG410 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

| completion c | ralian Institute of Quantity Surveyors, subject to f the following electives: Quantity Surveying 3 |
|-------------------------------------|--|
| BLDG4313 | Building Economics 3 |
| BLDG3005 | Construction 5 |
| BLDG4006 | Construction 6 |
| BLDG4274 | Commercial Arbitration |
| (3) The Institu of the following | ution of Surveyors Malaysia, subject to completion |
| BLDG2301 | Quantity Surveying 1 |
| BLDG3302 | Quantity Surveying 2 |

BLDG4303 Quantity Surveying 3

(4) The Society of Land Economists, subject to the completion of the following:

(a) BLDG2267 Management 7 BLDG4273 Law for Builders 3 BLDG4390 Property Valuation BLDG4391 Land Economics BLDG4393 Management of Buildings BLDG4392 Property Development BLDG4313 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.

Schedule of Subjects

Year 1 (All subjects compulsory)

| Semester 1 | Credit | Prerequisites points |
|------------|------------------------|----------------------|
| BLDG1001 | Construction 1 | |
| | (Domestic Buildings) | 3 |
| BLDG1010 | Communications and | |
| | Resource Usage | 3 |
| BLDG1091 | Built Environment 1 | 2 |
| BLDG1111 | Building Science 1 | |
| | (Materials) | 4 |
| BLDG1170 | Mathematics for Builde | ors 4 |
| BLDG1261 | Management 1 (Manag | gement |
| | Principles) | 2 |

| Semester 2 | | Credit points | Prerequisites |
|---------------|--------------------------------------|------------------|---------------|
| PHYS 1939 | Physics for Builders | 4 | |
| BLDG1002 | Construction 2 | | |
| | (Low Rise Domestic) | 4 | BLDG1001 |
| BLDG1051 | Structures 1 | 3 | |
| BLDG1151 | Building Services 1 | | |
| | (Hydraulics) | 2 | |
| BLDG1271 | Law for Builders 1 | 2 | |
| BLDG1311 | Building Economics 1 | з | |
| Years 2 (All | l subjects compulsory) | | |
| Semester 3 | | | |
| ACCT9001 | Introduction to Accounting | A 2 | |
| SURV0411 | Surveying for Architects and | d Build | ers 2 |
| BLDG2003 | Construction 3 | | |
| | (Framed Buildings) | 4 | BLDG1002, |
| | | | BLDG1151 |
| BLDG2052 | Structures 2 | 4 | BLDG1051 |
| BLDG2262 | Management 2 (Planning) | 3 | BLDG1261 |
| BLDG2281 | Introduction to Computing | 2 | |
| Semester 4 | | | |
| ACCT9002 | Introduction to Accounting | B 2 | ACCT9001 |
| BLDG2112 | Building Science 2 | | |
| | (Concrete and Metals) | 4 | |
| BLDG2152 | Building Services 2 | | |
| | (Mechanical) | 2 | PHYS1939, |
| | | | BLDG1151 |
| BLDG2263 | Management 3 (Contracts) | з | BLDG2262 |
| BLDG2301 | Quantity Surveying 1 | 4 | |
| | | | |
| Year 3 (All s | subjects compulsory) | | |
| Semester 5 | | | |
| BLDG3004 | Construction 4 | | |
| | (High Rise Buildings) | 4 | BLDG2003, |
| | | | BLDG2052 |
| BLDG3264 | Management 4 | | |
| | (Personnel Management) | 3 | BLDG2263 |
| BLDG3272 | Law for Builders 2 | 2 | BLDG1271 |
| BLDG3282 | Computer Applications | | |
| | in Building | 2 | BLDG2281 |
| BLDG3302 | Quantity Surveying 2 | | BLDG2301 |
| | General Education Electives | | |
| | (See General Education Ha | ndbool | <) |
| Semester 6 | A | | |
| | Construction 5 (Techniques | • | BLDG3004 |
| | Sail Mechanics for Building | 2 | |
| BLDG3265 | Management 5 (Project Management) | 3 | BLDG3264 |
| | | - | |
| | | | |

| | | Credit points | Prerequisites |
|-------------|----------------------|------------------|---------------|
| BLDG3312 | Building Economics 2 | з | ACCT9002 |
| BLDG3321 | Estimating 1 | 2 | BLDG2301 |
| General Edu | ucation Electives | 4 | |

Year 4 (Thesis preparation and Thesis are compulsory. Students must also enrol in BLDG9999 industry program to present their industrial experience documentation. Students must take a total of 20 elective credit points.)

Semester 7

Compulsory Subject

| BLDG4401 | Thesis preparation | 6 | |
|--------------|--------------------------------|-----|----------|
| Elective Sub | ojects | | |
| BLDG4006 | Construction 6 (Industrializat | ion | |
| | and Technological Change) | 2 | BLDG3005 |
| BLDG4008 | Construction Plant | 2 | |
| BLDG4092 | Built Environment 2 | 2 | |
| BLDG4113 | Building Science 3 | | |
| | (Energy and Thermal) | 3 | |
| BLDG4266 | Management 6 | | |
| | (Corporate Strategy) | 2 | BLDG3265 |
| BLDG4284 | Building Information | | |
| | Systems | 3 | BLDG3282 |
| BLDG4313 | Building Economics 3 | 2 | BLDG3312 |
| BLDG4322 | Estimating 2 | 2 | BLDG3321 |
| BLDG4392 | Property Development | 2 | BLDG3312 |
| General Edu | ucation Elective | 2 | |
| Semester 8 | | | |
| Compulsory | Subject | | |
| BLDG4402 | Thesis | 6 | BLDG4401 |
| BLDG9999 | Industry Program | | |
| Elective Sul | bjects | | |
| BLDG4007 | Construction 7 | | |
| | (Special Project) | 2 | BLDG3005 |
| BLDG4114 | Building Science 4 | | |
| | (Timber) | 2 | |
| BLDG4267 | Management 7 (Marketing) | 3 | BLDG3265 |
| BLDG4273 | Law for Builders 3 | 3 | BLDG3272 |
| BLDG4274 | Commercial Arbitration | 3 | BLDG2263 |
| BLDG4283 | Systems Analysis | | |
| | and Modelling | 3 | BLDG2263 |
| BLDG4303 | Quantity Surveying 3 | 3 | BLDG3302 |
| BLDG4390 | Property Valuation | 3 | |
| BLDG4391 | Land Economics | 3 | BLDG3312 |
| BLDG4393 | Management of Buildings | 2 | |
| | | | |

Department of Industrial Design

Head of Department:

John Redmond

Industrial design involves the research and design of the whole range of consumer and capital products used by people. Products as diverse as telephones and cranes, gas fires and exhibition systems, toothbrushes and motor cars. Ideally, the industrial designer works as part of a team involving engineering, production and marketing. The industrial designer initially concentrates on establishing the concept as a marketable, produceable, 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 3385 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 IDES1021 IDES1041 IDES1061 IDES1073 MATH1011 GEP | Basic Design Visual Thinking & Drawing History of Art, Architecture & Design Principles of Ergonomics General Mathematics 1B General Education Program | Hrs. pw 4 1 2 6 <u>2</u> 19 |
|---|---|--|
| Year 1 Session 2 IDES1031 IDES1051 MATH1021 PHYS1939 IDES1082 IDES1011 Year 2 | Design Studio 1 Geometrical & Mechanical Drawing General Mathematics 1C Physics Engineering Design Mechanics Workshop Technology | 4 6 4 <u>2</u> 24 |
| Session 1 IDES2091 IDES2101 IDES2111 IDES2132 IDES2132 IDES2142 IDES2151 MATH2819 ACCT1501 | Design Methodology Perspective & Rendering Techniques Industrial Design Studio 2 Introduction to Computing Introduction to Materials Science Mechanics of Solids for Industrial Design Product Studies Seminar Statistics SA Accounting & Financial Management 1A | 1 4 5 3 1 3 0.3 2 4.5 |
| Year 2 Session 2 IDES2161 IDES2151 ACCT1511 MATH2819 IDES2182 IDES2193 GEP | Industrial Design Studio 2 Computer Aided Design Product Studies Seminar Accounting & Financial Management 1B (or equivalent special subject) Statistics SA Materials & Manufacturing Processes for Industrial Design, A Applied Ergonomics General Education Program | 23.8 5 4 0.3 4.5 2 3 3 2 23.8 |
| Year 3 Session 1 IDES3202 IDES3212 IDES3221 IDES3231 MARK2012 MARK2032 IDES2151 | Materials & Manufacturing Processes for Industrial Design, B Principles of Electrical Engineering for Industrial Design Industrial Design Studio 3 Computer Graphic Applications Marketing Systems Consumer Behaviour A Product Studies Seminar | 3 2 5 4 4 4 4 0.3 22.3 |

| Year 3 | | |
|-----------------------|--|--------------------|
| Session 2 | Industrial Design Studie 2 | Hrs. pw 5 |
| IDES3241 MARK2052 | Industrial Design Studio 3 Marketing Research | 4 |
| MARK2032 MARK2042 | Consumer Behaviour B | 4 |
| IDES3252 | Electrical Engineering applications | - |
| IDE00202 | in Industrial Design | 2 |
| IDES3262 | Production Design & Technology for | ÷ |
| IDE00202 | Industrial Design | 2 |
| IDES3271 | Form Theory | 2 1 2 0.3 |
| IDES3281 | Photography | 2 |
| IDES2151 | Product Studies Seminar | 0.3 |
| GEP | General Education Program | $\frac{2}{22.3}$ |
| GE/ | deneral Eccentric g. a.m. | 22.3 |
| Year 4 | | |
| Session 1 | | |
| IDES4291 | Industrial Design Studio 4 | 5 |
| IDES4301 | Project Research | 4 |
| MARK3073 | Strategic Marketing | 4 |
| IDES2151 | Product Studies Seminar | 0.3 |
| IDES4311 | Graphic Design for Industrial Designer | rs 3 |
| IDES4321 | Environmental & Interior Design for | _ |
| | Industrial Designers | 2 |
| IDES4331 | History of Consumer Products | 0.5 |
| IDES4341 | History of Industrial Design | 0.5 |
| GEP | General Education Program | 4 |
| | | 23.3 |
| Year 4 | | |
| Session 2 IDES4351 | Project | 12 |
| MARK3083 | Managerial Marketing | 4 |
| IDES2151 | Product Studies Seminar | 0.3 |
| IDES4361 | Professional Practice | 1 |
| IDES4371 | Managing Product Innovation | |
| 1020407 | & Development | 1 |
| IDES4382 | Product Management for | |
| | Industrial Design | 2 |
| GEP | General Education Program | 2 |
| | - | 22.3 |
| IDES4391 | Industrial Experience | |

It should be noted that, subject to the approval of the Faculty of Architecture, certain subjects from other Schools of the University may be substituted for the subjects shown.

School of Landscape Architecture

Head of School

Professor James Weirick

Landscape Architecture

Degree Course

BLArch

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

Landscape in its broadest sense encompases all external spaces comprising natural topography and vegetation as well

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

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

General Description of the Course

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

The majority of subjects are specific; however, contact with the students of other schools within the Faculty and of other faculties within the University is assured by the inclusion of subjects from the Schools of Geography, Mines, Biological Science, 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 Practical Experience Co-ordinator. 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 LAND4270 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

Undergraduate Study

Landscape Architecture Course

Bachelor of Landscape Architecture

BLArch

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

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

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

Schedule of Subjects

| No. | Subject Name | Hours Per | Preregulaites |
|------------|--|------------------|---------------|
| | | Week | Therequieres |
| Year 1 | | | |
| Session 1 | | | |
| GEOL5110 | Geology for Landscape Architects | 1 | nil |
| LAND1131 | Introduction to Computer | | |
| 05004004 | Applications | 2 | nit |
| GEOG1051 | Global Environmental | | |
| LAND1132 | Problems and Processes | 4 | nil |
| LAND 1132 | Introduction to Landscap Architecture | | nil |
| LAND1130 | Landscape Graphics 1 | 1 4 | nil |
| LAND1170 | Design 1 | 3 | nil |
| BIOS3004 | Botany for Landscape | 3 | 1 14 |
| DIC00004 | Architects | 5 | nil |
| | General Education Electiv | | 1 111 |
| | (Cat.A) | 8 2 | |
| | (CallA) | 22 | |
| Session 2 | | ~~ | |
| LAND1211 | Horticulture for Landscap | • | |
| 0.001211 | Architects | 2 | BIOS3004 |
| LAND1210 | Landscape Analysis* | 6 | GEOG1051. |
| LAND 12 10 | Eandscape Analysis | 0 | LAND1130. |
| | | | BIOS3004 |
| | | | GEOL5110. |
| LAND1290 | Landscape Materials | | GEOLUTIO, |
| 2 | and Construction | з | nil |
| LAND1230 | Landscape Graphics 2 | 4 | LAND1130 |
| LAND1270 | Design 2 | 3 | LAND1170 |
| | 2 00.g. 2 | • | LAND1130 |
| | General Education Electiv (Cat. A) | / 0 2 | |
| | (| 20 | |

* 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.

| No. Su | bject Name | Hours Per | Prerequisites |
|---|---|-------------------|---|
| Year 2 <i>Session 1</i> LAND2171 | Listen, of Landaras, | Week | |
| | History of Landscape Architecture | 2 | nil |
| LAND2110 LAND2170 | Environmental Sociolog for Landscape Architec Landscape Design 1 | * | nil LAND3203, |
| LAND2191 | Landscape Technology General Education Elec (Cat B). | tive 2 | LAND1270, LAND1210 LAND1290 |
| Session 2 | | 19 | |
| LAND2271 | Planting Design | 2 | LAND1211 LAND2170 |
| LAND2270 LAND2290 | Landscape Design 2 Landscape Technology General Education Elec (Cat. B) | B 3 tive 2 | LAND2170 LAND2191 |
| Year 3 Session 1 | | 19 | |
| PLAN9111 LAND3130 LAND3170 | Town Planning Research Methods Landscape Design 3 | 2 1 8 | nil nil LAND2270, LAND2110, |
| LAND3191 | Professional Practice A | 2 | LAND2290 LAND2270, |
| LAND3190 | Landscape Engineering | јА З | LAND2290 LAND2290, |
| LAND3150 | Landscape Planning 1 | 3 | LAND2270 LAND2110, LAND2270 |
| | Social Responsibility and Professional Ethics CAT A & CAT B Genera Education Electives | 2 | |
| - | (Cat. C). | 21 | |
| Session 2 LAND3210 | Land Systems and Management | 2 | LAND3170, |
| LAND3270 LAND3291 | Landscape Design 4 Professional Practice B | 8 2 | LAND3150 LAND3170 LAND3191, |
| LAND3290 | Landscape Engineering | В 3 | LAND3170 LAND3190, |
| LAND3250 | Landscape Planning 2 | 3 | LAND3170 LAND3150 |
| Year 4 Session 1 | | 18 | |
| LAND4330 | Landscape Thesis | 10 | LAND3130, LAND3270 |
| LAND4170 | Landscape Design 5 | 3 | LAND3270, LAND3250 |
| LAND4171 | Urban Landscape Desig | gn <u>6</u> 19 | LAND3270 |
| <i>Session 2</i> LAND4330 LAND4270 | Landscape Thesis Landscape Design 6 | 4 12 | See Session 1 LAND4170, four months practical |
| | | 16 | experience |

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 bolder type. Each of these subjects must be passed before a student may progress to the next year's major planning subjects.

| Year 1 | | Hours per week | Credit points for Honours |
|-----------|----------------------------|-------------------------------|-------------------------------------|
| Session 1 | | | |
| PLAN1111 | Introduction to Planning | 12 | 14 |
| SURV0901 | Introduction to Mapping | 1.5 | 2 4 |
| PLAN2411 | Communication Techniques | 1 4 | 4 |
| PLAN2413 | Computers and | | |
| | InformationSystems | <u>2</u> 19.5 | $\frac{3}{23}$ |
| | | 19.5 | 23 |
| Session 2 | | | |
| PLAN1121 | Planning Studies | 12 | 14 |
| PLAN2421 | Communication | | |
| | Techniques II | 3 4 <u>4</u> 23 | 4 |
| PLAN2112 | The Development Process | 4 | 6 |
| GENS0000 | General Education Elective | 4 | <u>4</u> 28 |
| | | 23 | 28 |
| Year 2 | | | |
| Session 1 | | | |
| PLAN1131 | Local Planning 1 | 12 | 14 |
| PLAN2215 | Engineering A | 2 | 14 2 1 3 <u>3</u> 23 |
| PLAN2216 | Engineering B | 2 1 2 <u>2</u> 19 | ĩ |
| PLAN2112 | Environmental Science 1 | 2 | 3 |
| PLAN2211 | Environmental Science 2 | 2 | 3 |
| | | 19 | 23 |
| | | | |
| Session 2 | | | |
| PLAN1141 | Regional Planning 1 | 12 | 14 |
| PLAN2213 | Urban Design | 3 | 4 |
| PLAN2114 | History of Town Planning | 2 | 3 |
| GENS0000 | General Education Elective | 3 2 <u>4</u> 21 | 3 4 25 |
| | | 21 | 20 |

Year 3

| Session 1 PLAN1351 | Planning Law and | | |
|-----------------------|--|--------------------------|-----------------|
| FLANISSI | Planning Law and Administration 1 | 12 | 14 |
| PLAN2212 | Transportation Planning | | 4 |
| PLAN2217 | Urban Society and Sociology | š | 4 |
| LAND0001 | Landscape Architecture | 3 3 <u>2</u> 20 | |
| | · | 20 | <u>3</u> 25 |
| Session 1 | | | |
| PLAN1301 | Practical Experience | 3 | - |
| Year 4 | | | |
| Session 1 | | | |
| PLAN1301 | Practical Experience | 3 | - |
| Session 2 | | | |
| PLAN1161 | Local Planning 2 | 6 | 9 |
| PLAN2311 | Politics, Power and Policy | 3 | 4 |
| PLAN2321 | Planning Law and | _ | |
| PLAN1162 | Administration 2 | 3 | 4 |
| PLANT 102 | Integrated Planning Project 1 | 8 | Q |
| | | $\frac{8}{20}$ | <u>_8</u> 25 |
| Year 5 | | | |
| Session 1 | | | |
| PLAN1171 | Regional Planning 2 | 6 | 9 |
| PLAN2414 | Computer Applications in | | |
| | Planning 1 | 2 | 3 |
| PLAN1181 | Thesis | 1 | - |
| PLAN1172 | Integrated Planning | | |
| GENS0000 | Project 2 Social Responsibility and | 12 | 12 |
| GENSOUU | Professional Ethics | 2 | 2 |
| | Torodalorial Ethios | $\frac{2}{23}$ | $\frac{2}{26}$ |
| Session 2 | | | 20 |
| PLAN1181 | Thesis | 15 | 20 |
| PLAN2111 | Professional Practice | 1 | 2 |
| PLAN3000 | Planning Elective | $\frac{4}{20}$ | $\frac{4}{26}$ |
| | | 20 | 26 |
| | | | |

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

| Residential Planning | 4 | 4 |
|--------------------------|--|--|
| Regional Planning 3 | 4 | 4 |
| Rural Planning | 4 | 4 |
| Urban Conservation | 4 | 4 |
| Planning Law and | | |
| Administration 3 | 4 | 4 |
| Urban Studies | 4 | 4 |
| Social Planning | 4 | 4 |
| Environmental Psychology | 4 | 4 |
| Transport and | | |
| Environmental Management | 4 | 4 |
| Urban Design 2 | 4 | 4 |
| Computer Applications in | | |
| Planning 2 | 4 | 4 |
| | Regional Planning 3 Rural Planning Urban Conservation Planning Law and Administration 3 Urban Studies Social Planning Environmental Psychology Transport and Environmental Management Urban Design 2 Computer Applications in | Regional Planning 34Rural Planning4Urban Conservation4Planning Law and4Administration 34Urban Studies4Social Planning4Environmental Psychology4Transport andEnvironmental ManagementUrban Design 24Computer Applications in4 |

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.

.

.

•

Undergraduate Study

Subject Descriptions

Identification of Subjects

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'.

In 1991 a new system of subject identification is introduced. Each approved subject of the University will be identified by a sequence of eight characters, consisting of a four character alphabetical prefix which will identify the organizational unit responsible for administering the subject, and a four digit numeric suffix to identify the subject.

Subject identifiers are approved by the Registrar and the system of allocation is based on the following guidelines:

1. The authority offering the subject, normally a School of the University, is indicated by the four character alphabetical prefix.

2. Each subject identifier is unique and is not used for more than one subject title.

3. Subject numbers which have previously been used are not used for new subject titles.

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.

Appropriate subjects for each school appear at the end of each school section.

The identifying alphabetical prefixes for each organizational unit are set out on the following pages.

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 General Education subjects. For General Education subjects see the General Education 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, le 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

wks weeks of duration

C Credit point value

CR Credit

DN Distinction

HD High Distinction

X External

| ABIO School of Applied Bioscience Applied Second ACCT School of Accounting Commerce ACCT School of Accounting Commerce ACCT School of Accounting Commerce ACHM Department of Chemistry University ACMA Department of Computer Science University ACSC Department of Economics & University AECM Department of Economics & University AELE Department of Electrical Engineering Engineering University AERO Aeronautical Engineering Engineering Engineering AGOC Department of Electrical Engineering AGOC Department of Geography & Oceanography University AHIS Department of History University AINT UniversityCollege(Interdisciplinary) University AMAT Department of Mathematics University AMAT Department of Physics University ANAT School of Anatomy Medicine APHY Department of Politics University A | |
|--|---------|
| ACHM Department of Chemistry University ACMA Department of Civil Engineering University ACSC Department of Computer Science University ACSC Department of Economics & Management University AELE Department of Electrical Engineering University AENG Department of Electrical Engineering University AERO Aeronautical Engineering Engineering AGOC Department of Geography & Oceanography University AHIS Department of History University AINT UniversityCollege(Interdisciplinary) University AMAT Department of Mathematics University AMAT Department of Physics University ANAT School of Anatomy Medicine APHY Department of Politics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | e & |
| ACMA Department of Civil Engineering University ACSC Department of Computer Science University AECM Department of Economics & Management University AELE Department of Electrical Engineering University AENG Department of English University AERO Aeronautical Engineering Engineering AGOC Department of Geography & Oceanography University AHIS Department of History University AINT UniversityCollege(Interdisciplinary) University AMAT Department of Mathematics University AMAT School of Anatomy Medicine APHY Department of Physics University APCL Department of Politics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | |
| ACMA Department of Civil Engineering University ACSC Department of Computer Science University AECM Department of Economics & Management University AELE Department of Electrical Engineering University AENG Department of English University AERO Aeronautical Engineering Engineering AGOC Department of Geography & Oceanography University AHIS Department of History University AINT UniversityCollege(Interdisciplinary) University AMAT Department of Mathematics University AMAT School of Anatomy Medicine APHY Department of Physics University APCL Department of Politics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | College |
| AECM Department of Economics & Management University AELE Department of Electrical Engineering University AENG Department of English University AERO Aeronautical Engineering Engineering AGOC Department of Geography & Oceanography University AHIS Department of History University AINT UniversityCollege(Interdisciplinary) University AMAT Department of Mathematics University AMAT Department of Mechanical Engineering University ANAT School of Anatomy Medicine APHY Department of Physics University APAC Department of Politics University ANAT School of Anatomy Medicine APU Department of Politics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | |
| Management University AELE Department of Electrical Engineering University AENG Department of English University AERO Aeronautical Engineering Engineering AGOC Department of Geography & Oceanography University AHIS Department of History University AINT UniversityCollege(Interdisciplinary) University AMAT Department of Mathematics University AMAT Department of Mathematics University AMAT Department of Mathematics University AMAT Department of Physics University ANAT School of Anatomy Medicine APHY Department of Physics University APOL Department of Politics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | College |
| Engineering University AENG Department of English University AERO Aeronautical Engineering Engineering AGOC Department of Geography & Oceanography University AHIS Department of History University AHIS Department of History University AMAT Department of Mathematics University AMAT Department of Machanical Engineering University ANAT School of Anatomy Medicine APHY Department of Polysics University APOL Department of Politics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | College |
| AENG Department of English University AERO Aeronautical Engineering Engineering AGCC Department of Geography & University AGCC Department of History University AHIS Department of History University AINT UniversityCollege(Interdisciplinary) University AMAT Department of Mathematics University AMAT Department of Mechanical Engineering AMAT School of Anatomy Medicine APHY Department of Physics University APCL Department of Politics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | College |
| AERO Aeronautical Engineering Engineering AGOC Department of Geography & Oceanography University AHIS Department of History University AHIS Department of History University AINT UniversityCollege(Interdisciplinary) University AMAT Department of Mathematics University AMEC Department of Mechanical Engineering University ANAT School of Anatomy Medicine APHY Department of Polysics University APOL Department of Politics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | College |
| AGOC Department of Geography & Oceanography University AHIS Department of History University AINT UniversityCollege(Interdisciplinary) University AMAT Department of Mathematics University AMAT Department of Mathematics University AMEC Department of Mechanical Engineering University ANAT School of Anatomy Medicine APHY Department of Physics University APOL Department of Politics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | |
| AHIS Department of History University AINT UniversityCollege(Interdisciplinary) University AMAT Department of Mathematics University AMAT Department of Mathematics University AMEC Department of Mechanical Engineering ANAT School of Anatomy Medicine APHY Department of Physics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | - |
| AINT UniversityCollege(Interdisciplinary) University AMAT Department of Mathematics University AMEC Department of Mechanical Engineering ANAT School of Anatomy Medicine APHY Department of Politics University APOL Department of Politics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | College |
| AMAT Department of Mathematics University AMEC Department of Mechanical Engineering University ANAT School of Anatomy Medicine APHY Department of Physics University APOL Department of Politics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | College |
| AMEC Department of Mechanical Engineering University ANAT School of Anatomy Medicine APHY Department of Physics University APOL Department of Politics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | College |
| Engineering University ANAT School of Anatomy Medicine APHY Department of Physics University APOL Department of Politics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | College |
| APHY Department of Physics University APOL Department of Politics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | College |
| APOL Department of Politics University APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | |
| APSE Faculty of Applied Science Applied S ARCH School of Architecture Architecture | College |
| ARCH School of Architecture Architectu | College |
| | |
| ARTS Faculty of Arts Arts | ll.e |
| · · · · · · · · · · · · · · · · · · · | |
| ASIA Asian Studies Arts | |
| AUST Australian Studies Arts | |
| BIOC School of Blochemistry Biologica Behaviou Sciences | |
| BIOM Centre for Blomedical Engineering Engineeri | ng |
| BIOS School of Biological Science Biologica Behaviou Sciences | ral |
| BIOT Department of Biotechnology Applied S | |
| BLDG School of Building Architecte | |
| BSSM Board of Studies in Science & Mathematics | |
| CEIC School of Chemical Engineering & Industrial Chemistry Applied S | Science |
| CHEM School of Chemistry Science | |
| CHEN Department of Chemical Engineering Applied S | Science |
| CHIN Chinese Arts | |
| CIVL School of Civil Engineering Engineer | - |
| CMED School of Community Medicine Medicine | |
| COFA College of Fine Arts | |
| COMM Faculty of Commerce Commerce Economic | CS |
| COMP Computer Science Engineer | ing |
| ECOH Department of Economic History Commen Economi | |
| ECOM Department of Econometrics Comment Economic | 63 |
| ECON Department of Economics Commen Economi | ce & |

| Prefix | Organizational unit | Faculty |
|--------------|---|--|
| ECOS | School of Economics | Commerce & Economics |
| EDST | School of Education | Professional Studie: |
| ELEC | School of Electrical Engineering & | Engineering |
| | Computer Science | Engineering Arts |
| | School of English | Arts |
| euro Expa | European Studies School of Expressive & Performing Arts | Professional Studies |
| FIBR | School of Fibre Science & Technology | Applied Science |
| FINS | School of Banking & Finance | Commerce & Economics |
| FOOD | Department of Food Science and Technology | Applied Science |
| FREN | School of French | Arts |
| FUEL | Department of Fuel Technology | Applied Science |
| GENS | Centre for Liberal & General Studies | |
| GEOG | School of Geography | Applied Science |
| GEOL | Department of Applied Geology | Applied Science |
| GERS | School of German Studies | Arts |
| GREK | Modern Greek | Arts |
| GSBE | Graduate School of the Built Environment | Architecture |
| HEAL | School of Health Services Management | Professional Studie |
| HIST | School of History | Arts |
| HOSP | School of Marketing | Commerce & Economics |
| IDES | Department of Industrial Design | Architecture |
| INDC | Department of Industrial Chemistry | Applied Science |
| INDO | Indonesian | Arts |
| INFS | School of Information Systems | Commerce & Economics |
| INTD | Interdisciplinary Studies | Arts |
| irob Japn | School of Industrial Relations & Organ. Behaviour School of Marketing | Commerce & Economics Commerce & Economics |
| КСМЕ | Key Centre for Mines | Applied Science |
| LAND | School of Landscape Architecture | Architecture |
| LAWS | School of Law | Law |
| LEGT | Department of Legal Studies & Taxation | Commerce & Economics |
| LIBS | School of Librarianship | Professional Studie |
| MANF | Manufacturing Engineering | EngineerIng |
| | School of Marketing | Commerce & Economics |
| MATH | School of Mathematics | Science |
| MATS | School of Materials Science and Engineering | Applied Science |
| - | School of Medicine | Medicine |
| MDSG | Med/Surg.ClinicalStudies | Medicine |
| MECH | School of Mechanical Eng. & Manufacturing Eng. | Engineering |
| MEED | | Medicine |
| MFAC | Medical Faculty (Admin) | Medicine |
Undergraduate Study: Subject Descriptions

-

| MNGT Australian Graduate School of Management Arts MUSI School of Music Arts NAVL Naval Architecture Engineering OBST School of Optometry Science PAED School of Paediatrics Medicine PAED School of Paediatrics Medicine PATH School of Philosophy Arts PHIL School of Philosophy Arts PHH School of Physiclogy & Pharmacology Medicine PHX School of Physiclogy & Pharmacology Medicine PHH School of Physiclogy & Pharmacology Medicine PLAN School of Physiclogy Medicine PUS School of Political Science Arts POLY Department of Polymer Science Applied Science PSYC School of Russian Studies Arts SAFE Centre for Remote Sensing Engineering REMO Centre for Safety Science Engineering SLSP Department of Social Science & Policy Arts SOCI School of Social Work Professional St SPAN Spanish & Latin | Prefix | organizational unit | Faculty |
|--|-------------|---|----------------------|
| MNGT Australian Graduate School of ManagementAustralian Graduate School of ManagementMUSISchool of MusicArtsNAVLNaval ArchitectureEngineeringOBSTSchool of Obstetrics & GynaecologyMedicineOPTMSchool of OptometrySciencePAEDSchool of PaediatricsMedicinePATHSchool of PaediatricsMedicinePATHSchool of PhilosophyArtsPHPHSchool of Physiology & PharmacologyMedicinePHTSSchool of Physiology & PharmacologyMedicinePLANSchool of Physiology & PharmacologyMedicinePLANSchool of Physiology & PharmacologyMedicinePOLSSchool of Political ScienceArtsPOLYDepartment of Polymer ScienceApplied SciencePSYCSchool of PsychologyBiological & Behavioural SciencesPTRLDepartment of Petroleum Engineering StudiesArtsREMOCentre for Remote SensingEngineeringRUSSSchool of Science & Technology StudiesArtsSLSPDepartment of Social Science & PolicyArtsSOCUSchool of Social WorkProfessional StSOCUSchool of Science WorkProfessional StSURGSchool of SurveyingEngineeringSURGSchool of SurveyingEngineeringSURGSchool of SurveyingEngineeringTEEDSchool of Primary & Computer | MICR | School of Microbiology | Behavioural |
| of ManagementMUSISchool of MusicArtsNAVLNaval ArchitectureEngineeringOBSTSchool of Obstetrics & GynaecologyMedicineOPTMSchool of OptometrySciencePAEDSchool of PaediatricsMedicinePATHSchool of PathologyMedicinePHILSchool of Physiology & PharmacologyMedicinePHTSSchool of Physiology & PharmacologyMedicinePHTSSchool of Physiology & PharmacologyMedicinePLANSchool of Physiology & PharmacologyMedicinePOLYDepartment of Polymer ScienceApplied SciencePOLYDepartment of Polymer ScienceApplied SciencePSYCSchool of PsychologyBiological & Behavioural SciencesPTRLDepartment of Petroleum Engineering StudiesArtsREMOCentre for Remote SensingEngineeringRUSSSchool of Science & Technology StudiesArtsSLSPDepartment of Social Science & PolicyArtsSUSPSchool of Social WorkProfessional StSOCUSchool of Social WorkProfessional StSURGSchool of SurveyingEngineeringSURGSchool of SurveyingEngineeringTEEDSchool of SurveyingEngineeringTEEDSchool of Primary & Computer Education (undergrad)Professional StSURGSchool of SurveyingEngineeringTEEDSchool of Primary & Computer Education (undergrad)Professional StTEEDSchoo | MINE | Department of Mining Engineering | Applied Science |
| NAVLNaval ArchitectureEngineeringOBSTSchool of Obstetrics & GynaecologyMedicineOPTMSchool of OptometrySciencePAEDSchool of PaediatricsMedicinePATHSchool of PathologyMedicinePATHSchool of PhilosophyArtsPHILSchool of Physiology & PharmacologyMedicinePHILSchool of PhysicsSciencePLANSchool of Polysical ScienceArtsPOLYDepartment of Polymer ScienceApplied SciencePSCYSchool of PsychiatryLawPSYCSchool of PsychologyBiological & Behavioural SciencesPTRLDepartment of Petroleum Engineering StudiesArtsREMOCentre for Remote SensingEngineeringRUSSSchool of Science & Technology StudiesArtsSLSPDepartment of Social Science & PolicyArtsSLSPDepartment of Social Science & PolicyArtsSCTSSchool of Science & Technology StudiesArtsSUSPDepartment of Social Science & PolicyArtsSUSPSchool of Social WorkProfessional StSURGSchool of SurgeryMedicineSURGSchool of ScienceyProfessional StSURGSchool of Primary & Computer Education (grad)Professional StTEEDSchool of Primary & Computer Education (undergrad)Professional StTEEDSchool of Primary & Computer Education (undergrad)Professional StTESUTESOLArts | MNGT | | |
| OBSTSchool of Obstetrics & GynaecologyMedicineOPTMSchool of OptometrySciencePAEDSchool of PaediatricsMedicinePATHSchool of PathologyMedicinePATHSchool of PhilosophyArtsPHHLSchool of Physiology & PharmacologyMedicinePHHSchool of Physiology & PharmacologyMedicinePHYSSchool of PhysicsSciencePLANSchool of Political ScienceArtsPOLSSchool of Political ScienceArtsPOLYDepartment of Polymer ScienceApplied SciencePSCYSchool of PsychologyBiological & Behavioural SciencesPTRLDepartment of Petroleum Engineering StudiesArtsREMOCentre for Remote SensingEngineeringRUSSSchool of Science & Technology StudiesArtsSLSPDepartment of Social Science & PolicyArtsSLSPDepartment of Social Science & PolicyArtsSUSPSchool of Social WorkProfessional StSOCWSchool of SurgeryMedicineSURGSchool of SurgeryMedicineSURVSchool of Primary & Computer Education (undergrad)Professional StTESLTESOLArtsTESLTESOLArtsSURVSchool of Primary & Computer Education (undergrad)Professional StTESLTESOLArtsTESLTESOLArtsSURVSchool of Theatre StudiesArtsSURVSchool of The | MUSI | School of Music | Arts |
| OPTMSchool of OptometrySciencePAEDSchool of PaediatricsMedicinePATHSchool of PaediatricsMedicinePATHSchool of PathologyMedicinePHILSchool of PhilosophyArtsPHPHSchool of Physiology & PharmacologyMedicinePHYSSchool of PhysicsSciencePLANSchool of PhysicsSciencePLANSchool of Political ScienceArtsPOLYDepartment of Polymer ScienceApplied SciencePSYCSchool of PsychiatryLawPSYCSchool of PsychologyBiological & Behavioural SciencesPTRLDepartment of Petroleum Engineering StudiesArtsREMOCentre for Remote SensingEngineeringRUSSSchool of Science & Technology StudiesArtsSLSPDepartment of Social Science & PolicyArtsSLSPDepartment of Social Science & PolicyArtsSUSPSchool of Social WorkProfessional StSOCUSchool of SurgeryMedicineSURGSchool of SurgeryMedicineSURGSchool of Primary & Computer Education (grad)Professional StTEEDSchool of Primary & Computer Education (undergrad)Professional StTESLTESOLArtsJSOMSchool of Theatre StudiesArtsJSOMSchool of Theatre StudiesArtsSURVSchool of Primary & Computer Education (undergrad)Professional StTESLTESOLArts <td>NAVL</td> <td>Naval Architecture</td> <td>Engineering</td> | NAVL | Naval Architecture | Engineering |
| PAEDSchool of PaediatricsMedicinePAEDSchool of PaediatricsMedicinePATHSchool of PathologyMedicinePHILSchool of PhilosophyArtsPHPHSchool of Physiology & PharmacologyMedicinePHYSSchool of PhysicsSciencePLANSchool of Political ScienceArtsPOLSSchool of Political ScienceArtsPOLYDepartment of Polymer ScienceApplied SciencePSCYSchool of PsychologyBiological & Behavioural SciencesPTRLDepartment of Petroleurn Engineering StudiesArtsREMOCentre for Remote SensingEngineeringRUSSSchool of Science & Technology StudiesArtsSLSPDepartment of Social Science & PolicyArtsSLSPDepartment of Social Science & PolicyArtsSUSSSchool of SociologyArtsSUSSSchool of Social Science & PolicyArtsSUSSSchool of Social Science & PolicyArtsSUSSSchool of Social Science & PolicyArtsSUSSSchool of Social WorkProfessional StSURGSchool of SurgeryMedicineSURGSchool of Primary & Computer Education (grad)Professional StTEEDSchool of Primary & Computer Education (undergrad)Professional StTEEDSchool of Primary & Computer Education (undergrad)Professional StTESUTESOLArtsJSOMSchool of Theatre StudiesArts | OBST | School of Obstetrics & Gynaecology | Medicine |
| PATHSchool of PathologyMedicinePATHSchool of PhilosophyArtsPHILSchool of Physiology & PharmacologyMedicinePHYSSchool of Physiology & PharmacologyMedicinePHYSSchool of Physiology & PharmacologyMedicinePHYSSchool of Physiology & PharmacologyMedicinePUXSchool of Political ScienceArtsPOLYDepartment of Political ScienceApplied SciencePSCYSchool of PsychologyBiological & Behavioural SciencesPTRLDepartment of Petroleurn Engineering StudiesApplied ScienceREMOCentre for Remote SensingEngineeringRUSSSchool of Russian StudiesArtsSAFECentre for Safety ScienceEngineeringSCTSSchool of Science & Technology StudiesArtsSUSPDepartment of Social Science & PolicyArtsSUSPDepartment of Social Science & PolicyArtsSOCISchool of ScolologyArtsSOCWSchool of SurgeryMedicineSURGSchool of SurgeryMedicineSURGSchool of SurgeryMedicineSURGSchool of Primary & Computer Education (undergrad)Professional StTEEDSchool of Primary & Computer Education (undergrad)Professional StTESLTESOLArtsJSOMSchool of Textile TechnologyApplied ScienceMOMSWomen StudiesArts | OPTM | School of Optometry | Science |
| PHILSchool of PhilosophyArtsPHILSchool of Physiology & PharmacologyMedicinePHTYSSchool of Physiology & PharmacologyMedicinePHYSSchool of PhysicsSciencePLANSchool of Political ScienceArtsPOLYDepartment of Polymer ScienceApplied SciencePSCYSchool of PsychiatryLawPSYCSchool of PsychologyBiological & Behavioural SciencesPTRLDepartment of Petroleum Engineering StudiesApplied ScienceREMOCentre for Remote SensingEngineeringRUSSSchool of Science & Technology StudiesArtsSAFECentre for Safety ScienceEngineeringSLSPDepartment of Social Science & PolicyArtsSLSPDepartment of Social Science & PolicyArtsSOCWSchool of Social WorkProfessional StSPANSpanish & Latin American StudiesArtsSURGSchool of SurveyingEngineeringTEDGSchool of Primary & Computer Education (undergrad)Professional StTESLTESOLArtsTESLTESOLArtsJSOMSchool of Theatre StudiesArtsSURGSchool of Theatre StudiesArtsSURGSchool of MinesApplied ScienceWOMSWomen StudiesArts | PAED | School of Paediatrics | Medicine |
| PHPHSchool of Physiology & PharmacologyMedicinePHPHSchool of PhysicsSciencePLANSchool of Town PlanningArchitecturePOLSSchool of Political ScienceArtsPOLYDepartment of Polymer ScienceApplied SciencePSCYSchool of PsychiatryLawPSYCSchool of PsychologyBiological & Behavioural SciencesPTRLDepartment of Petroleurn Engineering StudiesApplied ScienceREMOCentre for Remote SensingEngineeringRUSSSchool of Science & Technology StudiesArtsSAFECentre for Safety ScienceEngineeringSCTSSchool of Social Science & PolicyArtsSLSPDepartment of Social Science & PolicyArtsSOCUSchool of Social WorkProfessional StSPANSpanish & Latin American StudiesArtsSURGSchool of SurveyingEngineeringTEEDGSchool of Primary & Computer Education (undergrad)Professional StTEEDSchool of Primary & Computer Education (undergrad)Professional StTESLTESOLArtsTESLTESOLArtsTESLTESOLArtsTESLSchool of Theatre StudiesArtsTESLSchool of Theatre StudiesArtsTESLSchool of Theatre StudiesArtsTESLSchool of Theatre StudiesArtsTESLTESOLArtsTESLTESOLArtsTESLSchool of Mines <td>PATH</td> <td>School of Pathology</td> <td>Medicine</td> | PATH | School of Pathology | Medicine |
| PHYSSchool of PhysicsSciencePLANSchool of Town PlanningArchitecturePOLSSchool of Political ScienceArtsPOLYDepartment of Polymer ScienceApplied SciencePSCYSchool of PsychiatryLawPSYCSchool of PsychologyBiological & Behavioural SciencesPTRLDepartment of Petroleum Engineering StudiesApplied ScienceREMOCentre for Remote SensingEngineeringRUSSSchool of Russian StudiesArtsSAFECentre for Safety ScienceEngineeringSCTSSchool of Science & Technology StudiesArtsSLSPDepartment of Social Science & PolicyArtsSUSPSchool of Social Science & PolicyArtsSOCUSchool of Social WorkProfessional StSOCHSchool of Social WorkProfessional StSPANSpanish & Latin American StudiesArtsSURGSchool of SurveyingEngineeringFEDGSchool of Primary & Computer Education (grad)Professional StFEEDSchool of Primary & Computer Education (undergrad)Professional StFESLTESOLArtsFEXTDepartment of Textile TechnologyApplied ScienceFINTSchool of NinesApplied ScienceVOMSWomen StudiesArts | PHIL | School of Philosophy | Arts |
| PLANSchool of Town PlanningArchitecturePLANSchool of Political ScienceArtsPOLSSchool of Political ScienceArtsPOLYDepartment of Polymer ScienceApplied SciencePSYCSchool of PsychologyBiological & Behavioural SciencesPSYCSchool of PsychologyBiological & Behavioural SciencesPTRLDepartment of Petroleum Engineering StudiesApplied ScienceREMOCentre for Remote SensingEngineeringRUSSSchool of Russian StudiesArtsSAFECentre for Safety ScienceEngineeringSCTSSchool of Science & Technology StudiesArtsSLSPDepartment of Social Science & PolicyArtsSUSPSchool of Social WorkProfessional StSOCUSchool of Social WorkProfessional StSPANSpanish & Latin American StudiesArtsSURGSchool of SurveyingEngineeringSURGSchool of Primary & Computer Education (grad)Professional StTEEDSchool of Primary & Computer Education (undergrad)Professional StTESLTESOLArtsTESLTESOLArtsTESLTesolArtsJSOMSchool of Theatre StudiesArtsJSOMSchool of MinesApplied ScienceWOMSWomen StudiesArts | PHPH | School of Physiology & Pharmacology | Medicine |
| POLSSchool of Political ScienceArtsPOLYDepartment of Polymer ScienceApplied SciencePSCYSchool of PsychologyBiological & Behavioural SciencesPSYCSchool of PsychologyBiological & Behavioural SciencesPTRLDepartment of Petroleurn Engineering StudiesApplied ScienceREMOCentre for Remote SensingEngineeringRUSSSchool of Russian StudiesArtsSAFECentre for Remote SensingEngineeringRUSSSchool of Russian StudiesArtsSAFECentre for Safety ScienceEngineeringSCTSSchool of Science & Technology StudiesArtsSLSPDepartment of Social Science & PolicyArtsSUSPSchool of SociologyArtsSOCUSchool of SociologyArtsSOCWSchool of Social WorkProfessional StSPANSpanish & Latin American StudiesArtsSURGSchool of SurgeryMedicineSURVSchool of SurveyingEngineeringTEEDSchool of Primary & Computer Education (grad)Professional StTEEDSchool of Primary & Computer Education (undergrad)Professional StTESLTESOLArtsTESLTESOLArtsJSOMSchool of Theatre StudiesArtsJSOMSchool of MinesApplied ScienceWOMSWomen StudiesArts | PHYS | School of Physics | Science |
| POLYDepartment of Polymer ScienceApplied SciencePSCYSchool of PsychologyBiological & Behavioural SciencesPSYCSchool of PsychologyBiological & Behavioural SciencesPTRLDepartment of Petroleum Engineering StudiesApplied ScienceREMOCentre for Remote SensingEngineeringRUSSSchool of Russlan StudiesArtsSAFECentre for Safety ScienceEngineeringSCTSSchool of Science & Technology StudiesArtsSLSPDepartment of Social Science & PolicyArtsSUSPSchool of Sport & Leisure StudiesProfessional StSOCISchool of Social WorkProfessional StSPANSpanish & Latin American StudiesArtsSURGSchool of SurveyingEngineeringFEEDSchool of Primary & Computer Education (grad)Professional StFEEDSchool of Primary & Computer Education (undergrad)Professional StFEEXTESOLArtsFEXTDepartment of Textile TechnologyApplied ScienceFINSTSchool of MinesApplied ScienceFUSHSchool of MinesApplied Science | PLAN | School of Town Planning | Architecture |
| PSCYSchool of PsychiatryLawPSYCSchool of PsychologyBiological & Behavioural SciencesPTRLDepartment of Petroleum Engineering StudiesApplied ScienceREMOCentre for Remote SensingEngineeringRUSSSchool of Russian StudiesArtsSAFECentre for Safety ScienceEngineeringSCTSSchool of Science & Technology StudiesArtsSLSPDepartment of Social Science & PolicyArtsSOCISchool of Social Science & PolicyArtsSOCUSchool of Social WorkProfessional StSPANSpanish & Latin American StudiesArtsSURGSchool of SurveyingEngineeringFEDGSchool of Primary & Computer Education (grad)Professional StTESLTESOLArtsTESLTESOLArtsTESLSchool of Theatre StudiesArtsJSOMSchool of MinesApplied ScienceWOMSWomen StudiesArts | POLS | School of Political Science | Arts |
| PSYCSchool of PsychologyBiological & Behavioural SciencesPTRLDepartment of Petroleurn Engineering StudiesApplied ScienceREMOCentre for Remote SensingEngineeringRUSSSchool of Russian StudiesArtsSAFECentre for Safety ScienceEngineeringSCTSSchool of Science & Technology StudiesArtsSLSPDepartment of Social Science & PolicyArtsSLSPDepartment of Social Science & PolicyArtsSOCISchool of SociologyArtsSOCWSchool of Social WorkProfessional StSPANSpanish & Latin American StudiesArtsSURGSchool of SurveyingEngineeringFEDGSchool of Primary & Computer Education (grad)Professional StTESDTESOLArtsTESLTESOLArtsJSOMSchool of Primary & Computer Education (undergrad)Professional StTESLTESOLArtsJSOMSchool of Theatre StudiesArtsJSOMSchool of MinesApplied ScienceWOMSWomen StudiesArts | POLY | Department of Polymer Science | Applied Science |
| PTRL Department of Petroleum Engineering Studies Applied Sciences REMO Centre for Remote Sensing Engineering RUSS School of Russian Studies Arts SAFE Centre for Safety Science Engineering RUSS School of Science & Technology Studies Arts SAFE Centre for Safety Science Engineering SCTS School of Science & Technology Studies Arts SUSP Department of Social Science & Policy Arts SUST School of Sport & Leisure Studies Professional St SOCU School of Social Work Professional St SOR School of Social Work Professional St SURG School of Surgery Medicine SURV School of Surgery Medicine SURV School of Primary & Computer Education (grad) Professional St TEED School of Primary & Computer Education (undergrad) Professional St TESL TESOL Arts TESL TESOL Arts TESL TESOL Arts TESL TESOL Arts JSOM <td>PSCY</td> <td>School of Psychiatry</td> <td>Law</td> | PSCY | School of Psychiatry | Law |
| Engineering StudiesApplied ScienceREMOCentre for Remote SensingEngineeringRUSSSchool of Russian StudiesArtsSAFECentre for Safety ScienceEngineeringSCTSSchool of Science & Technology StudiesArtsBESPDepartment of Social Science & PolicyArtsSLSPDepartment of Social Science & PolicyArtsSOCISchool of Sport & Leisure StudiesProfessional StSOCWSchool of Social WorkProfessional StSPANSpanish & Latin American StudiesArtsSURGSchool of SurveyingEngineeringTEEDSchool of Primary & Computer Education (grad)Professional StTEEDSchool of Primary & Computer Education (undergrad)Professional StTEXTDepartment of Textile TechnologyApplied ScienceTHATSchool of MinesArtsApplied ScienceModicineSURVSchool of Primary & Computer Education (undergrad)TESLTESOLArtsTEXTDepartment of Textile TechnologyApplied ScienceTHSTSchool of MinesApplied ScienceWOMSWomen StudiesArts | PSYC | School of Psychology | Behavioural |
| RUSSSchool of Russian StudiesArtsSAFECentre for Safety ScienceEngineeringSCTSSchool of Science & Technology StudiesArtsHPSTDepartment of Social Science & PolicyArtsSLSPDepartment of Social Science & PolicyArtsSUSTSchool of Sport & Leisure StudiesProfessional StSOCISchool of Social WorkProfessional StSOCWSchool of Social WorkProfessional StSPANSpanish & Latin American StudiesArtsSURGSchool of SurveyingEngineeringSURVSchool of SurveyingEngineeringTEEDSchool of Primary & Computer Education (grad)Professional StTESLTESOLArtsTEXTDepartment of Textile TechnologyApplied ScienceTHSTSchool of MinesArtsJSOMSchool of MinesApplied ScienceWOMSWomen StudiesArts | PTRL | | Applied Science |
| SAFE Centre for Safety Science Engineering SCTS) School of Science & Technology Studies Arts HPST Department of Social Science & Policy Arts SLSP Department of Social Science & Policy Arts SUST School of Sport & Leisure Studies Professional St SOCI School of Social Work Professional St SOCW School of Social Work Professional St SURG School of Surgery Medicine SURG School of Surveying Engineering TEED School of Primary & Computer Education (grad) Professional St TEED School of Primary & Computer Education (undergrad) Professional St TESL TESOL Arts TEXT Department of Textile Technology Applied Science THST School of Mines Applied Science JSOM School of Mines Applied Science | Remo | Centre for Remote Sensing | Engineering |
| SCTSA School of Science & Technology Studies Arts HPST Department of Social Science & Policy Arts SLSP Department of Social Science & Policy Arts SUSP School of Sport & Leisure Studies Professional St SOCI School of Social Work Professional St SOCW School of Social Work Professional St SPAN Spanish & Latin American Studies Arts SURG School of Surgery Medicine SURV School of Primary & Computer Professional St FEDG School of Primary & Computer Professional St EffED School of Primary & Computer Professional St EffEX TESOL Arts IFEX TESOL Arts JSOM School of Theatre Studies A | RUSS | School of Russian Studies | Arts |
| HPST SLSP Department of Social Science & Policy Arts SLST School of Sport & Leisure Studies Professional St SOCI School of Social Work Professional St SOCW School of Social Work Professional St SPAN Spanish & Latin American Studies Arts SURG School of Surgery Medicine SURV School of Surveying Engineering TEED School of Primary & Computer Education (grad) Professional St TEED School of Primary & Computer Education (undergrad) Professional St TESL TESOL Arts TEXT Department of Textile Technology Applied Science JSOM School of Mines Applied Science VOMS Women Studies Arts | SAFE | Centre for Safety Science | Engineering |
| SLST School of Sport & Leisure Studies Professional St SOCI School of Sociology Arts SOCW School of Social Work Professional St SPAN Spanish & Latin American Studies Arts SURG School of Surgery Medicine SURV School of Surgery Medicine SURV School of Surveying Engineering FEDG School of Primary & Computer Education (grad) Professional St FEED School of Primary & Computer Education (undergrad) Professional St FESL TESOL Arts FEXT Department of Textile Technology Applied Science FINST School of Mines Applied Science NOMS Women Studies Arts | | School of Science & Technology Studies | Arts |
| SOCI School of Sociology Arts SOCW School of Social Work Professional St SPAN Spanish & Latin American Studies Arts SURG School of Surgery Medicine SURV School of Surgery Professional St FEDG School of Primary & Computer Education (grad) Professional St FEED School of Primary & Computer Education (undergrad) Professional St FESL TESOL Arts FEXT Department of Textile Technology Applied Science JSOM School of Mines Applied Science WOMS Women Studies Arts | SLSP | Department of Social Science & Policy | Arts |
| SOCW School of Social Work Professional St SPAN Spanish & Latin American Studies Arts SURG School of Surgery Medicine SURV School of Surveying Engineering TEDG School of Primary & Computer Professional St Education (grad) Professional St TESD School of Primary & Computer Professional St Education (grad) Professional St TESD School of Primary & Computer Professional St Education (undergrad) Professional St St TESL TESOL Arts TEXT Department of Textile Technology Applied Science THST School of Mines Applied Science JSOM School of Mines Applied Science NOMS Women Studies Arts | SLST | School of Sport & Leisure Studies | Professional Studie |
| SPAN Spanish & Latin American Studies Arts SURG School of Surgery Medicine SURV School of Surveying Engineering FEDG School of Primary & Computer Professional St FEED School of Primary & Computer Professional St FESL TESOL Arts FEXT Department of Textile Technology Applied Science FHST School of Theatre Studies Arts JSOM School of Mines Applied Science WOMS Women Studies Arts | SOCI | School of Sociology | Arts |
| SURG School of Surgery Medicine SURV School of Surveying Engineering FEDG School of Primary & Computer Education (grad) Professional St Professional St Education (undergrad) FESL TESOL Arts FEXT Department of Textile Technology Applied Science FHST School of Mines Applied Science VOMS Women Studies Arts | socw | School of Social Work | Professional Studies |
| SURV School of Surveying Engineering FEDG School of Primary & Computer Education (grad) Professional St Professional St FEED School of Primary & Computer Education (undergrad) Professional St FESL TESOL Arts FEXT Department of Textile Technology Applied Science FHST School of Mines Applied Science JSOM School of Mines Applied Science WOMS Women Studies Arts | SPAN | Spanish & Latin American Studies | Arts |
| TEDG School of Primary & Computer Professional St Education (grad) Professional St TEED School of Primary & Computer Professional St Education (undergrad) Professional St TESL TESOL Arts TEXT Department of Textile Technology Applied Science THST School of Mines Arts JSOM School of Mines Applied Science NOMS Women Studies Arts | SURG | School of Surgery | Medicine |
| TEDG School of Primary & Computer Professional Str Education (grad) Professional Str TEED School of Primary & Computer Professional Str Education (undergrad) Professional Str TESL TESOL Arts TEXT Department of Textile Technology Applied Science THST School of Mines Arts JSOM School of Mines Applied Science NOMS Women Studies Arts | SURV | School of Surveying | Engineering |
| Education (undergrad) FESL TESOL Arts FEXT Department of Textile Technology Applied Science FHST School of Theatre Studies Arts JSOM School of Mines Applied Science NOMS Women Studies Arts | redg | School of Primary & Computer Education (grad) | Professional Studie |
| TEXT Department of Textile Technology Applied Science THST School of Theatre Studies Arts JSOM School of Mines Applied Science WOMS Women Studies Arts | TEED | School of Primary & Computer Education (undergrad) | Professional Studie: |
| ITHST School of Theatre Studies Arts JSOM School of Mines Applied Science WOMS Women Studies Arts | resl | TESOL | Arts |
| JSOM School of Mines Applied Science NOMS Women Studies Arts | TEXT | Department of Textile Technology | Applied Science |
| VOMS Women Studies Arts | THST | School of Theatre Studies | Arts |
| | JSOM | School of Mines | Applied Science |
| VOOL Department of Wool & Animal Science Applied Scienc | NOMS | Women Studies | Arts |
| | NOOL | Department of Wool & Animal Science | Applied Science |

Architecture

Architectural Design Studio

Architectural synthesis is the central function of the design studio, the locus 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.

ARCH6101 Design Studio 1

C24

Prerequisite: 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 architects' 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. (Old No. 11.6101)

ARCH6102 Design Studio 2

C30

C30

Prerequisites: ARCH6101, ARCH6501, ARCH6601, ARCH6701, four from ARCH6211, ARCH6311, ARCH6511, ARCH6611, ARCH6711.

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. (Old No. 11.6102)

ARCH6103 Design Studio 3

Prerequisites: ARCH6102, ARCH6502, ARCH6602, ARCH6702, four from ARCH6212, ARCH6312, ARCH6512, ARCH6612, ARCH6712.

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. (Old No. 11.6103)

ARCH6104 Design Studio 4

C24

Prerequisites: ARCH6103, ARCH6503, ARCH6603, ARCH6703, four from ARCH6213, ARCH6313, ARCH6513, ARCH6613, ARCH6713.

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. (Old No. 11.6104)

ARCH6105 Design Studio 5 C24

Prerequisites: ARCH6104, ARCH6114, ARCH6514, ARCH6514, ARCH6904.

The design of a relatively complex and large scale development, incorporating residential, involving a range of user groups. Resolution of conflicting issues such as site constraints, planning controls and building regulations, environmental context and the social role of the development. Group and individual work with an emphasis on urban design. (Old No. 11.6105)

ARCH6106 Design Studio 6

Prereguisites: ARCH6105, ARCH6115, ARCH6515.

Exploration and resolution of relatively complex human activities not necessarily of a familiar pattern for non-residential buildings, with emphasis on integration of structure, construction, services and environmental controls at an advanced level and contemporary technology. (Old No. 11.6106)

ARCH6107 Design Studio 7

C24

C24

Prerequisites: ARCH6106, ARCH6116, ARCH6516, ARCH6906.

This subject represents the culmination of the B.Arch course for all students except those who take the Major Design Project or Research Project. It comprises a design project resolved in depth in all areas of architecture, including architectural design, urban design, interior design, construction, structure, services, acoustics, lighting and practice and management. (Old No. 11.6107)

ARCH6127 Major Design Project

C30

Prerequisite: By approval.

Under supervision of an individual member of staff, with a supportive package of Electives (C24) which are closely related to and form part of the final submission.

The scope and size 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, site information, and associated research will have been done in the seminars and architectural research project during Year 5 Session 2.

The end result of this Major Design Project would be a building or a group of buildings of extremely high standard - resolved in detail-structure, finishes, furnishings, environmental control, etc. (Old No. 11.6127)

C6

ARCH6114 Design Seminar 1

C3

Prerequisites: ARCH6103, ARCH6503, ARCH6603, ARCH6703, four from ARCH6213, ARCH6313, ARCH6513, ARCH6613, ARCH6713.

Understanding of the relation between building cost and architectural design. Preparation of a cost plan for design project in Design Studio 4. (Old No. 11.6114)

ARCH6115 Design Seminar 2

C3

Prerequisites: ARCH6104, ARCH6114, ARCH6514, ARCH6904.

An understanding of the town planning process as a community based contextual system of decision-making directing the physical, social and economic fabric of human settlements. A detailed account of the role and function of environmental studies, planning controls, performance standards, statutory mapping, the development application process, the design review committee and process, the appeal process, the settlement of disputes. Lectures, seminars, case studies associated as appropriate with studio exercises covering community development and urban design issues. (Old No. 11.6115)

ARCH6116 Design Seminar 3

Prerequisites: ARCH6105, ARCH6115, ARCH6515.

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. (Old No. 11.6116)

ARCH6117 Design Seminar 4

C3

C3

Prerequisites: ARCH6106, ARCH6116, ARCH6516, ARCH6906.

Development and presentation of the theoretical basis of the students own design work in Design Studio 7. (Old No. 11.6117)

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.

ARCH6201 Architectural Computing 1 C6

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. (Old No. 11.6201)

ARCH6205 Architectural Computing 2

Prerequisite: ARCH6201.

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. (Old No. 11.6205)

ARCH6211 Communication Seminar 1 C18

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. (Old No. 11.6211)

ARCH6212 Communication Seminar 2 C12

Prerequisites: ARCH6101, ARCH6501, ARCH6601, ARCH6701, four from ARCH6211, ARCH6311, ARCH6511, ARCH6611, ARCH6711.

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.) (Old No. 11.6212)

ARCH6213 Communication Seminar 3 C12

Prerequisites: ARCH6102, ARCH6502, ARCH6602, ARCH6702, four from ARCH6212, ARCH6312, ARCH6512, ARCH6612, ARCH6712.

To experiment with a range of wet techniques for presentation. Advanced exercises in three dimensional composition and the display of this through two dimensional presentation techniques including overlays and collages. Introduction to architectural and model photography, dark room techniques, and lighting theory. Jury and sales techniques. Advanced exercises in scholarly writing, report and letter writing and oral presentation. (Old No. 11.6213)

Theory of Architecture

Objective: To understand and to apply the principles directing design, in particular architectural design; the enhancement of life-events by spatial arrangements, the logic of the process of designation, the central idea of a composition, the formal

characteristics of wholes and parts and the conditions of their fitting into the sensible and the intelligible environment.

ARCH6301 Theory of Architecture 1 C6

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 connotations 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.

Studies and readings of selected writings and theories in architecture and related disciplines. (Old No. 11.6301)

ARCH6302 Theory of Architecture 2

Prerequisite: ARCH6301.

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.

Studies and readings of selected writings and theories in architecture and related disciplines. (Old No. 11.6302)

ARCH6303 Theory of Architecture 3

Prerequisite: ARCH6302.

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.

Studies and readings of selected writings and theories in architecture and related disciplines. (Old No. 11.6303)

ARCH6311 Theory Seminar 1

Prerequisite: Nil.

C6

C6

Exercises in the application of ARCH6301 Theory of Architecture 1 related to projects in Design Studio 1. (Old No. 11.6311)

ARCH6312 Theory Seminar 2

C9

C9

Prerequisites: ARCH6101, ARCH6501, ARCH6601, ARCH6701, four from ARCH6211, ARCH6311, ARCH6511, ARCH6611, ARCH6711.

Exercises in the application of ARCH6302 Theory of Architecture 2 related to projects in Design Studio 2. (Old No. 11.6312)

ARCH6313 Theory Seminar 3

C9

C9

Prerequisites: ARCH6102, ARCH6502, ARCH6602, ARCH6702, four from ARCH6212, ARCH6312, ARCH6512, ARCH6612, ARCH6712.

Exercises in the application of ARCH6103 Theory of Architecture 3 related to projects in Design Studio 3 (**Old No.** 11.6313)

History of Architecture

Objective: To provide an overall view 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.

ARCH6401 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. (Old No. 11.6401)

ARCH6402 History of Architecture 2 C12

Prerequisite: ARCH6401.

A selection of theme units which broach both the conceptual structures and theoretical borders of architecture. Themes for

ARCH6403 History of Architecture 3 C12

Prerequisite: ARCH6402.

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. (Old No. 11.6403)

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.

ARCH6501 Architectural Construction 1 C9

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 artifact design. Introduction to construction drawing practice and use of resource materials. (Old No. 11.6501)

C12

ARCH6502 Architectural Construction 2

Prerequisite: ARCH6501.

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. (Old No. 11.6502)

ARCH6503 Architectural Construction 3 C12

Prerequisite: ARCH6502.

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. (**Oid No. 11.6503**)

ARCH6511 Construction Seminar 1

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. (Old No. 11.6511)

ARCH6512 Construction Seminar 2

C9

C12

Prerequisites: ARCH6101, ARCH6501, ARCH6601, ARCH6701, four from ARCH6211, ARCH6311, ARCH6511, ARCH6611, ARCH6711.

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. (Old No. 11.6512)

ARCH6513 Construction Seminar 3

C9

Prerequisites: ARCH6102, ARCH6502, ARCH6602, ARCH6702, four from ARCH6212, ARCH6312, ARCH6512, ARCH6612, ARCH6712.

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. (Old No. 11.6513)

ARCH6514 Technology Seminar 1 C3

Prerequisites: ARCH6103, ARCH6503, ARCH6603, ARCH6703, four from ARCH6213, ARCH6313, ARCH6513, ARCH6613, ARCH6713.

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 accustics will be incorporated into the seminar program, appropriate to the current studio topics. (Old No. 11.6514)

ARCH6515 Technology Seminar 2

СЗ

Prerequisites: ARCH6104, ARCH6114, ARCH6514, ARCH6904.

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. (Old No. 11.6515)

ARCH6516 Technology Seminar 3

Prerequisites: ARCH6105, ARCH6115, ARCH6515.

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. (Old No. 11.6516)

ARCH6517 Technology Seminar 4 C3

Prerequisites: ARCH6106, ARCH6116, ARCH6516, ARCH6906.

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. (Old No. 11.6517)

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.

ARCH6601 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. (Old No. 11.6601)

ARCH6602 Architectural Structures 2 C6

Prerequisite: ARCH6601.

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. (Old No. 11.6602)

ARCH6603 Architectural Structures 3 C6

Prerequisite: ARCH6602.

C3

C6

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. (Old No. 11.6603)

C6

C6

C6

C9

ARCH6611 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. (Old No. 11.6611)

ARCH6612 Structures Seminar 2

Prerequisites: ARCH6101, ARCH6501, ARCH6601, ARCH6701, four from ARCH6211, ARCH6311, ARCH6511, ARCH6611, ARCH6711.

Exercises in the behaviour, selection, analysis and design of simple structural assemblages, related where appropriate to Design Studio 2 design projects. **(Old No. 11.6612)**

ARCH6613 Structures Seminar 3

Prerequisites: ARCH6102, ARCH6502, ARCH6602, ARCH6702, four from ARCH6212, ARCH6312, ARCH6512, ARCH6612, ARCH6712.

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. **(Old No. 11.6613)**

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.

ARCH6701 Environmental Control 1

Prerequisite: Nil.

Human response to the environment, thermal, visual and acoustic comfort and air quality. Climate and the sunlighting and daylighting of buildings. Subjective and objective assessments of aural, visual and thermal environments and their integration. Laboratory work and field studies.

The building envelope: Thermal performance; principles of heat transfer, solar radiation effects, absorptivity, reflectivity, conduction, thermal gradients, condensation and thermal insulation. Acoustic performance; properties and behaviour of sound, sound transmission loss, external noise levels, selection of building envelope elements. Daylighting performance: traditional methods of daylighting buildings, application of prediction methods, patterns of innovation and change, advanced glazing technologies. Integration of heat, light and sound in building envelope design. (Old No. 11.6701)

ARCH6702 Environmental Control 2 C12

Prerequisite: ARCH6701.

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. (Old No. 11.6702)

ARCH6703 Environmental Control 3 C12

Prerequisite: ARCH6702.

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. (Old No. 11.6703)

ARCH6711 Environmental Control Seminar 1 C6

Prerequisite: 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. (Old No. 11.6711)

ARCH6712 Environmental Control Seminar 2 C6

Prerequisites: ARCH6101, ARCH6501, ARCH6601, ARCH6701, four from ARCH6211, ARCH6311, ARCH6511, ARCH6611, ARCH6711.

Lighting, acoustics and thermal design linked where appropriate to design projects in Design Studio 2. (Old No. 11.6712)

ARCH6713 Environmental Control Seminar 3 C6

Prerequisites: ARCH6102, ARCH6502, ARCH6602, ARCH6702, four from ARCH6212, ARCH6312, ARCH6512, ARCH6612, ARCH6712.

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. (Old No. 11.6713)

Architectural Practice

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

ARCH6804 Architectural Practice 1 C6

Prerequisite: ARCH6103.

Contract documentation and specification writing techniques. Estimating, cost planning and bills of quantities. (Old No. 11.6804)

ARCH6806 Architectural Practice 2 C6

Prerequisite: ARCH6804.

Introduction to the legal system; aspects of the law of contract, torts, property, copyright. Legal consequences of architectural practice. Liability of architects. Professional indemnity insurance. Authorities controlling building. Types of building contract. Tendering and negotiating. The architect/client agreement. Budgets and estimates. Engagement of consultants. Contract administration procedures. Professional ethics. (Old No. 11.6806)

ARCH6807 Architectural Practice 3

C6

C0

Prerequisite: ARCH6806.

Alternative methods of building procurement. Detailed comparison of standard contracts in current use. Advanced contract administration procedures. Partial architectural services and liability. Professional defensive measures and crisis management.

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. (Old No. 11.6807)

Other Required Studies

ARCH6904 Practical Experience

Prerequisite: ARCH6103.

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. (Old No. 11.6904)

ARCH6906 Dissertation

Prerequisite: ARCH6103.

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

C18

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. (Old No. 11.6906)

ARCH6907 Major Research Project C30

Prerequisite: By approval.

Under supervision of an individual member of staff, with a supportive package of Electives (C24) which are closely related to and form part of the final submission. Students who have approval 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 achitectural 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 Artchitecture and of particular interest to the student. (Oid No. 11.6907)

| ARCH5912 | Research Methods (For BSc(Arch) only) | C6 |
|----------|--|----|
| | (For DSC(Arch) only) | |

Prerequisite: ARCH6101.

The processes and methods of research. Problem solving, data gathering and processing, structuring and compilation of research reports. (Old No. 11.5912)

ARCH5914 Special Research Programme I C15 (For BSc(Arch) only)

Prerequisite: Head of School's approval.

Introductory programme on a topic area selected by the student in accordance with his or her field of specialisation. Approval of topic by Head of School and supervision by appropriate staff is required. The special research programmes provide the opportunity to practice research methods, planning, organising and conducting and documenting study in the chosen field. (Old No. 11.5914)

ARCH5915 Special Research Programme 2 C15 (For BSc(Arch) only)

Prerequisites: ARCH5914 or equivalent, Head of School's approval.

Further development of the topic previously selected by the student in APCH5914. Approval of topic by Head of School and supervision by appropriate staff is required. (Old No. 11.5915)

ARCH5916 Special Research Programme 3 C15 (For BSc(Arch) only)

Prerequisites: ARCH5915 or equivalent, Head of School's approval.

Culmination of study in topic area previously undertaken in ARCH5914 and ARCH5915. Approval of topic by Head of School and supervision by appropriate staff is required. (Old No. 11.5916)

ARCH5917 Research project C24 (For BSc(Arch) only)

Prerequisite: ARCH5916 or equivalent.

This project represents the culmination and integration of knowledge and skill gained in the student's field of specialisation, including social, environmental and ethical aspects. The research project report should be presented in a thesis format. (Old No. 11.5917)

| ARCH5918 | Honours Project I | C60 |
|----------|----------------------|-----|
| | (For BSc(Arch) only) | |

Prerequisite: ARCH5917 or equivalent.

The honours project provides opportunity for advanced study in a particular area of specialisation. (Old No. 11.5918)

| ARCH5919 | Honours Project 2 (For BSc(Arch) only) | C60 |
|----------|---|-----|
| | | |

Prerequisite: ARCH5918.

The honours project provides opportunity for advanced study in a particular area of specialisation. (Old No. 11.5919)

Electives

ARCH5220 Computer Graphics Programming 1 C6

Prerequisite: ARCH6103.

Introduction to the fundamentals of interactive computer graphics programming; techniques of computer programming utilising a high-level language; use of graphics library functions; PC graphics; user interaction techniques. Controlled series of programming exercises. (Old No. 11.5220)

ARCH5221 Computer Graphics Programming 2 C12

Prerequisite: ARCH5220.

Advanced techniques of interactive computer graphics programming; graphic techniques for user input; menu-based interfaces; colour manipulation; three-dimensional modelling. Design and development of a graphics-based application program. (Old No. 11.5221)

ARCH5222 Computer Applications 1 C12

Prerequisite: ARCH6103.

A study of computer graphics applications in Architecture: advanced use of computer-alded drafting systems; computer modelling and three-dimensional graphics. Staged drafting and design exercises. (Old No. 11.5222)

C6

C6

ARCH5223 Computer Applications 2

Prerequisite: ARCH6103.

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. (Old No. 11.5223)

ARCH5227 Advanced Graphics C6

Prerequisite: ARCH6103.

A theoretical and practical study of the relationship between the visual and the plastic arts. Media and material studies. Development of a professional level of performance in adapting graphic theory and techniques to contemporary needs. (Old No. 11.5227)

ARCH5228 Drawing

Prerequisite: ARCH6103.

Direct drawing from life and man-made environment to develop technical and perception skills, media studies, gallery visits and drawing theory. (Old No. 11.5228)

ARCH5229 Painting C6

Prerequisite: ARCH6103.

The theory and practice of painting. Figure and ground interaction, colour and media studies. Individual style and thematic development encouraged. Gallery visits. (Old No. 11.5229)

ARCH5230 Pottery and Ceramics

Prerequisite: ARCH6103.

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. (Old No. 11.5230)

ARCH5231 Rendering

Prerequisite: ARCH6103.

Advanced architectural rendering. (Oid No. 11.5231)

ARCH5320 Theory of Form

Prerequisite: ARCH6103.

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. (Old Ne. 11.5320)

ARCH5321 Criticism and Evaluation

Prerequisite: ARCH6103.

C6

C6

C6

C6

C6

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. (Old No. 11.5321)

ARCH5322 Imagination C6

Prerequisite: ARCH6103.

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. (Old No. 11.5322)

ARCH5323 Spirit in Architecture

Prerequisite: ARCH6103.

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. (Old No. 11.5323)

ARCH5420 Building Conservation C6

Prerequisite: ARCH6103.

The role of building conservation in the field of architecture and planning. Guidelines for conservation and the role of statutory and voluntary bodies. Historical research and fabric documentation leading to the assessment of buildings and the preparation of conservation policies and conservation plans. (Old No. 11.5420)

ARCH5421 Recent Australian Architects C6

Prerequisite: ARCH6103.

Detailed study of the theories and work of selected Australian architects. (Old No. 11.5421)

ARCH5422 Great Architects C6

Prerequisite: ARCH6103.

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. (Old No. 11.5422)

ARCH5423 The City-Sydney

Prerequisite: ARCH6103.

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. (Old No. 11.5423)

ARCH5424 Urban Design

Prerequisite: ARCH6103.

Design Studies in the integration of buildings and groups of buildings in their urban context, and of spaces between buildings, accommodation of pedestrian and vehicular movement, micro-climate. (Old No. 11.5424)

ARCH5425 Landscape Design C6

Prerequisite: ARCH6103.

Aesthetic appreciation of chosen environments both urban and natural. The treatment of spaces between and upon buildings. 'Hard' and 'soft' landscape treatments. Functional uses of open space within the built environment and the design of street furniture. (Old No. 11.5425)

ARCH5426 The Modern Movement in Architecture C6

Prerequisite: ARCH6103.

A detailed illustrated examination of the architecture and architects who make up this movement from 1885-1965 from Chicago to Europe then to USA and Europe. A study of Australian examples of this movement.

ARCH5427 Post Modernism in Architecture C6

Prerequisite: ARCH6103.

The rise of Post Modernism as both a reaction to, and a continuation of the Modern Movement. The subject will attempt to define the various aspects of Post Modern architecture to include Deconstruction. Period covered 1964-1991.

ARCH5520 Advanced Building Materials C6 (Ceramics)

Prerequisite: ARCH6103.

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. (Old No. 11.5520)

ARCH5521 Advanced Construction Systems C6

Prerequisite: ARCH6103.

A review of recent developments, current trends and possible future directions in building design, construction systems, detailing and documentation. Case studies, projects, seminars. (Old No. 11.5521)

ARCH5522 Construction Planning and Management

Prerequisite: ARCH6103.

C6

C6

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. (Old No. 11.5522)

ARCH5523 Advanced Building Materials C6 (Organics)

Prerequisite: ARCH6103.

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. (Old No. 11.5523)

ARCH5524 Advanced Building Materials (Metals) C6

Prerequisite: ARCH6103.

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. (Old No. 11.5524)

ARCH5620 Conceptual Structural Design C12

Prerequisites: ARCH6103, ARCH6503, ARCH6603.

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. (Old No. 11.5620)

ARCH5621 Advanced Structural Design C12

Prerequisite: ARCH5620.

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. (Old No. 11.5621)

ARCH5622 Lightweight Structural Design C12

Prerequisites: ARCH6503, ARCH6603, ARCH6104.

Integrated architectural/ structural/ constructional/ environmental design of cable, cable-net, membrane, tensegrity, shell and folded surface structures in lightweight materials (concrete, timber, metals and composites). Current issues related to on-going research and development. Structural ideologies. Seminar and project(s). Model and

C6

computer laboratory work and occasional construction workshop. (Old No. 11.5622)

ARCH5720 Design for Energy Efficiency C6

Prerequisite: ARCH6103.

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. (Old No. 11.5720)

ARCH5721 Design of Lighting C6

Prerequisite: ARCH6103.

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. (Old No. 11.5721)

ARCH5722 Acoustics Studies

Prerequisite: ARCH6103.

Experimental investigation and research in a selected aspect of acoustics. Laboratory and field work, methodology of results, development of techniques of application. Laboratory work. (Old No. 11.5722)

ARCH5723 Applied Environmental Psychology C6

Prerequisite: ARCH6103.

Designing with and for people; environmentally benign design; interactions between people and places; spatial behaviours; the meaning of the environment; user satisfaction; post occupancy evaluation.

ARCH5820 Building Economics & Development C6

Prerequisite: ARCH6103.

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. (Oid No. 11.5820)

ARCH5821 Project Management

Prerequisite: ARCH6103.

1. Principles of scientific management and organisation, individual group behaviour, management functions, planning, organising, staffing, directing, coordinating, monitoring, appraisals and evaluation. 2. Operations research techniques; network analysis, multi-activity charting. 3. Decision theory and procedures. 4. Contract and contract documents. 5. Industrial relations, employment. 6. Industrial organisation. 7. Seminars. (Old No. 11.5821)

ARCH5822 The Architect and the Law

Prerequisite: ARCH6103.

1. Arbitration and litigation. 2. Appeals to the Land and Environment Court. 3. Environment law. 4. Industrial Law. 5. Case studies. (Old No. 11.5822)

ARCH5823 Quality Management Concepts C6

Prerequisite: ARCH6806.

The basic principles of quality management including quality control, quality assurance and the design of quality systems. Exploration of issues relating to the quality of design and procurement process and of the end product of the construction process. Relevance of Australian standards and professional manuals in quality assurance.

ARCH5824 Quality Management Practice C6

Prerequisites: ARCH5823, ARCH6807.

Application of the concepts of quality management. Preparation, documentation and evaluation of quality systems. Industrial and site visists.

ARCH5920 Architectural Research 1 C12

Prerequisite: ARCH6103.

C6

C6

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 session receding that in which it is intended to enrol in this elective. For special conditions consult Head of School. (Old No. 11.5920)

ARCH5921 Architectural Research 2 C12

Prerequisite: ARCH6103.

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 exisiting elective. Students are required to present a detailed program of study for approval by the Head of School by the end of the session preceding that in which it is intended to enrol in this elective. For special conditions consult Head of School. (Old No. 11.5921)

ARCH5922 Architectural Research 3 C12

Prerequisite: ARCH6103.

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 session preceding that in which it is intended to enrol in this elective. For special conditions consult Head of School. (Old No. 11.5922)

ARCH5930 Science Seminar 1 C12 (For BSc(Arch) only)

Prerequisite: ARCH6101.

Student preparation of research programmes, methodologies, results and conclusions. Discussion and debate of ethical, environmental and related issues. Exercises in aspects of communication, computing, structures and environmental control.

ARCH5931 Science Seminar 2 C6 (For BSc(Arch) only)

Prerequisite: ARCH5930 or equivalent.

Student presentation of research programmes. Discussion and debate of ethical, environmental and related issues. Exercises in architectural construction, particularly relating to building defects and their prevention.

ARCH5940 Theory of Architectural Computing 1 C6 (For BSc(Arch) only)

Prerequisite: ARCH6201.

A study of the knowledge that underlies the application of computers to the theory and practice of architecture. This subject looks at traditional approaches to architectural computing including space planning, facilities and management, building performance analysis, information systems and operations research. Assessment is by means of project work.

ARCH5941 Theory of Architectural Computing 2 C6 (For BSc(Arch) only)

Prerequisite: ARCH5940.

Further study of the application of computers to the theory and practice of architecture, focussing generally on the field of knowledge engineering. This subject deals with knowledge-based systems and knowledge representation techniques, shape grammars, expert systems and design information systems. Assessment is by means of project work.

ARCH5942 Architectural Computing Seminar C15 (For BSc(Arch) only) C15

Prerequisite: ARCH6205.

Hands-on implementation and application of computing theory. Students are engaged in a self-directed project involving significant usage of either an existing application program or the development of new software. The aim of this subject is to gain significant exposure to some aspect of architectural computing that is related to the particular interests of the student.

ARCH5950 Industrial Archaeology 1 C6

Prerequisite: ARCH6103.

The range of industrial sites and individual engineering structures of heritage significance still extant in Sydney. Documentation of sites and structures. The conservation strategies for the protection of industrial sites and engineering structures.

ARCH5951 Industrial Archaeology 2

Prerequisite: ARCH5950.

The history and development of selected industries in Sydney, including hydraulic power, electricity generation, rail and tram transport and engineering. Techniques of historical research into industrial sites and structures. Field excursions, recording, preparation of listing proposals and the use of statutory regulations for the protection of relevant sites.

ARCH5952 Traditional Technology 1

Prerequisite: ARCH6103.

The scope of traditional technologies with particular reference to the building technologies of foundry work, blacksmithing, plastering and stained glass manufacture. Methods of recording including sketching, photography and the unstructured interview. The role of the architect in conservation of traditional technologies.

ARCH5953 Traditional Technology 2

Prerequisite: ARCH6103.

The detailed study of a selected traditional technology. Interview and documentation techniques for recording proceses and activities. The role of traditional craftspeople in the conservation of heritage buildings. The assessment of the work of traditional craftspeople and the role of authenticity in conservation.

General Education Subjects

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

Building

Construction Stream

BLDG1001 Construction 1 S1 LT3 (Domestic Buildings)

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. (Old No. 35.001)

BLDG1002 Construction 2 S2 LT4 (Low Rise Domestic)

Compulsory. Prerequisite: BLDG1001, BLDG1010

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

C6

C6

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. (Old No. 35.002)

BLDG2003 Construction 3 (Framed Building) S3 LT4

Compulsory. Prerequisites: BLDG 1002, BLDG 1 151.

Functional requirements and methods of constructing framed buildings: study of structural steel and concrete frames; large span factory roofing, precast concrete walling, welding techniques, fire requirements, cladding methods, installation of cranes and machine footings, site works, dewatering, shoring, piling on site observation and report on factory building. (Old No. 35.003)

| BLDG3004 | Construction 4 | S5 LT4 |
|----------|-----------------------|--------|
| | (High-rise Buildings) | |

Compulsory. Prerequisites: BLDG2003, BLDG2052.

Functional requirements and building techniques of high-rise buildings and major building projects; structural systems, enclosure systems and environmental control systems and their inter-relation from a building standpoint; various methods and materials commonly used to solve functional demands; comparison of systems of construction, selection of plant and equipment cranes hoists concrete pumps etc.; building loads and load factors; stability of structures and structural components; creep, settlement and other movement; principles of fire protection in high-rise projects; cladding in concrete, metal and glass; ceiling and partition systems; integration and coordination of services. On site observation and report on high rise building. (Old No. 35.004)

BLDG3005 Construction 5 (Techniques) S6 LT4

Compulsory. Prerequisite: BLDG3004,

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. (Old No. 35.005)

BLDG4006 Construction 6 (Industrialization S7 L2 and Technological Change)

Elective. Prerequisite: BLDG3005.

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. (Old No. 35.006)

BLDG4007Construction 7 (Special Project)S8 L2Elective. Prerequisite: BLDG3005.

The study of special advanced topics in building construction on either a group or individual basis. (Old No. 35.007)

BLDG4008 Construction Plant S7 L2

Elective. Prerequisite: Nil.

On-site materials handling: hoists, cranes, concrete pumps. Earth moving plant: bulldozers, excavators, backhoes. Pile driving equipment; shoring and rock anchoring equipment. Economic optimization of plant. (Old No. 35.008)

BLDG1010 Communications and S1 LT3 Resource Usage

Compulsory. Prerequisite: Nil.

Using the library. Accessing information: reading, summarizing and report writing. Organization of and participation in meetings, seminars and lectures. Graphic communication: sketching, photography, drafting and detailing. (Old No. 35.010)

BLDG3050 Soli 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. (Old No. 35.050)

BLDG1051 Structures 1

Compulsory. Prerequisite: Nil.

Loads on structures; external and internal forces; conditions of force and moment equilibrium. Analysis of statically determinate beams, bending moment and shear force diagrams; bending and shear stresses; deflections. Qualitative structural behaviour of arch, cable, membrane, plate and shell structures; the function of bracing. (Old No. 35.051)

BLDG2052 Structures 2

S3 LT4

S2 LT3

Compulsory. Prerequisites: BLDG1051.

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. (Old No. 35.052)

BLDG1091 Built Environment 1

Compulsory. Prerequisite: Nil.

The intention is to develop an understanding of the relevance of man's "culture" (that thing which his social, economic, political, religious and physical environment gives rise to) to the nature of buildings and settlements which he devises, and an appreciation of the architecture and building (in particular in terms of materials and construction) of those cultures which can be seen to be providing the line to modern "western" building from as far back as "the stone ages". (Old No. 35.091)

BLDG4092 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. (Old No. 35.092)

Building Science Stream

PHYS1939 Physics

S2 LT4

S1 LT2

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. (Old No. 1.931)

BLDG1111 Building Science 1 (Materials) S1 LT4

Compulsory. Prerequisite: Nil.

Properties of materials; plasticity, elasticity, density, porosity, hardness. Optical, electrical, thermal and acoustic properties. Deterioration. Properties and manufacture of building materials; wood, wood products, cements, limes, concrete, bricks, metals, fibre cement, ceramics, plastics, sealants and mastics, stones. (Old No. 35.111)

BLDG2112 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. (Old No. 35.112)

BLDG4113 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. Artifical light: light sources; quality; spatial illumination; design considerations; maintenance. (Old No. 35.113)

BLDG4114 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. (Old No. 35.114)

BLDG1151 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. (Old No. 35.151)

BLDG2152 Building Services 2 (Mechanical) S4 LT2

Compulsory. Prerequisites: PHYS1939, BLDG1151.

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. (Old No. 35.152)

BLDG1170 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; linear and multiple regression; non-parametric statistics; descriptive presentation of data. (Old No. 35.170)

Management Stream

BLDG1261 Management 1 S1 LT2 (Management Principles)

Compulsory. Prerequisite: Nil.

Basic management principles, scientific management, management objectives. Structure of building industry. Building Acts and Regulations, codes, local government authority powers. (Old No. 35.261)

BLDG2262 Management 2 (Planning) S3 LT3

Compulsory. Prerequisite: BLDG1261.

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. (Old No. 35.262)

BLDG2263 Management 3 (Contracts) S4 LT3

Compulsory. Prerequisite: BLDG2262.

Concept of contracting and subcontracting, different procurement methods. Contract law, building contracts and contract administration, standard forms of contracts, contract claims and disputes, contract negotiation. Principles of insurance, contract insurance, professional negligence. Purchasing. (Old No. 35.263)

BLDG3264 Management 4 S5 LT3 (Personnel Management)

Compulsory. Prerequisite: BLDG2263.

Personnel management, human motivation, employment. industrial relations, employers and employer groups, unions and unionism. Conciliation and arbitration. Site organization (labour aspects), safety management. (Old No. 35.264)

BLDG3265 Management 5 S6 LT3 (Project Management)

Compulsory. Prerequisite: BLDG3264.

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. (Old No. 35.265)

BLDG4266 Management 6 (Corporate Strategy) S7 L2

Elective. Prerequisite: BLDG3265.

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 knowedge 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. (Old No. 35.266)

BLDG4267 Management 7 (Marketing) S8 LT3

Elective. Prerequisite: BLDG3265.

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. (Old No. 35.267)

BLDG1271 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. (Old No. 35.271)

BLDG3272 Law for Builders 2

Compulsory. Prerequisite: BLDG1271.

General principles of insurance law. Law related to non-commercial succession to property. Real property and local government law, company and administrative law. (Old No. 35.272)

| BLDG4273 | Law for Builders 3 | S8 LT3 |
|----------|--------------------|--------|
|----------|--------------------|--------|

Elective. Prerequisite: BLDG3272.

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. (Old No. 35.273)

S5 LT2

BLDG4274 Commercial Arbitration

S8 LT3

Elective. Prerequisite: BLDG2263.

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. (Old No. 35.274)

BLDG2281 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. (Old No. 35.381)

| BLDG3282 | Computer Applications | S5 LT2 |
|----------|-----------------------|--------|
| | in Building | |

Compulsory. Prerequisite: BLDG2281.

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. (Old No. 35.282)

BLDG4283 Systems Analysis and Modelling S8 LT3

Elective. Prerequisite: BLDG2263.

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. (Old No. 35.283)

BLDG4284 Building Information Systems S7 LT3

Elective. Prerequisite: BLDG3282.

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. (Oid No. 35.284)

Building Economics Stream

ACCT9001 Introduction to Accounting A S3 LT2

Compulsory. Prerequisite: Nil.

An introduction for non-commerce students to the nature, purpose and conceptual foundation of accounting. Information systems including accounting applications. Analysis and use of accounting reports. (Old No. 14.001)

ACCT9002 Introduction to Accounting B S4 LT2

Compulsory. Prerequisite: ACCT9001.

An introduction for non-commerce students to managerial accounting. Long-range planning, budgeting and responsibility accounting: cost determination, cost control and relevant cost analyses. (Old No. 14.002)

BLDG2301 Quantity Surveying 1 S4 LT4

Compulsory. Prerequisite: Nil.

Quantity surveying; historical background; functions of the quantity surveyor; introduction to 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 and billing; Bill of Quantities format; elementary billing and measurement of basic trades including finishes, brickwork, woodwork, roofing, concrete and groundworks. (Old No. 35.301)

BLDG3302 Quantity Surveying 2 S5 LT4

Compulsory. Prerequisite: BLDG2301.

Advanced billing and measurement of structural and services trades; preliminaries, etc in accordance with Standard Method of Measurement of Building Works; contract administration; exercises in variations, cost adjustment and progress claims; relationship between the Specification and the Bill of Quantities. (Old No. 35.302)

BLDG4303 Quantity Surveying 3 S8 LT3

Elective. Prerequisite: BLDG3302.

Functions of the cost planner; liaison with consultants; cost planning techniques including practical exercises; cost control and design economics; professional practice. (Old No. 35.303)

BLDG1311 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. (Old No. 35.311)

BLDG3312 Building Economics 2 S6 LT3

Compulsory. Prerequisite: ACCT9002.

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. (Old No. 35.312)

BLDG4313 Building Economics 3 S7 LT2

Elective. Prerequisite: BLDG3312.

Capital investment analysis; advanced investment evaluation; feasibility studies; financial management and analysis; growth and development; the financial market. (Old No. 35.313)

BLDG3321 Estimating 1 S6 LT2

Compulsory. Prerequisite: BLDG2301.

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. (Old No. 35.321)

BLDG4322 Estimating 2 S7 LT2

Elective. Prerequisite: BLDG3321.

Advanced estimating techniques, competitve tendering, contract cost adjustments; computer techniques applied to estimating. (Old No. 35.322)

BLDG4390 Property Valuation S8 L3

Elective. Prerequisite: Nil.

General principles of valuation, legal background to valuation of land and property. Judicial valuations, legal precedent, land titles and rights. Depreciation assessment. Building maintenance cycles. Time value of money and equivalence. Methods and philosophies of determining market value: comparable sales analysis, statutory values and applications. Building investment feasibility assessment. Case studies of property valuations. Detailed measured survey drawing and inspection of buildings. (Old No. 35.390)

BLDG4391 Land Economics

Elective. Prerequisite: BLDG3312.

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 propety types; competency in the use of property valuation and inspection aids; famillarity with resource materials and information sources required to undertake specific types of valuation. (Old No. 35.391)

BLDG4392 Property Development S7 LT2

Elective. Prerequisite: BLDG3312.

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. (**Old No. 35.392**)

BLDG4393 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. (Old No. 35.393)

Other Subjects

BLDG4401 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. (Old No. 35.401)

BLDG4402 Thesis

S8

Compulsory. Prerequisite: BLDG4401.

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. (OId No. 35.402)

BLDG9999 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. **(Old No. 35.410)**

BLDG9000 Special Programme

Elective. Prerequisite: Nil.

This subject, to be presented by visiting lecturers, would allow presentation of subject material not covered elsewhere in the course. The subject is to be presented on an occasional basis; subject content dependent on lecturer. (Old No. 35.420)

S7 or 8 LT2

I to Compulso

S8 LT3

Industrial Design

Design Studios

IDES1021 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. (Old No. 39.311)

IDES1031 Design Studio 1 4 L1 T3

Corequisite: IDES1021.

Theoretical and project work to introduce design methodologies and their application to three dimensional design problems. (Old No. 39.312)

IDES2161 Industrial Design Studio 2 10 F L1 T4

Prerequisite: IDES1031.

The introduction of industrial design and research methodologies. Studies and projects are undertaken within the context of social, commercial and industrial requirements. (Old No. 39.321)

IDES3221 Industrial Design Studio 3 10 F L1 T4

Prerequisite: IDES2161.

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. (Old No. 39.331)

IDES4291 Industrial Design Studio 4 5 L1 T4

Prerequisite: IDES3221.

Advanced theoretical and project work taking a particular project to an advanced state of development, preparatory to undertaking the Project. (Old No. 39.341)

IDES4301 Project Research 4 L1 T3

Prerequisite: IDES3221.

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. (Old No. 39.342)

| IDES4351 | Project | 12 L1 T11 |
|---------------|-----------|-----------|
| Prerequisite: | IDES3221. | |

Co-requisite: IDES4301.

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. (Old No. 39.343)

IDES4321 Environmental & Interior Design 2 L1 T2 for Industrial Designers

Prerequisite: IDES2161.

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. (Old No. 39.332)

Design Skills

| IDES1041 | Visual Thinking & Drawing | 4 L1 T3 |
|---------------|---------------------------|---------|
| Prereauisite: | 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. (Old No. 39.313)

IDES1051 Geometrical & Mechanical 4 L1 T3 Drawing

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. (Old No. 39.314)

IDES1011 Workshop Technology L0.5 T1.5

Prerequisites: Nil.

Introduction to workshop techniques involved in the production of models and prototypes. Development of safe working practices using a range of hand tools and basic machining processes.

IDES2101 Perspective & Rendering 4 L1 T3 Techniques

Prerequisites: IDES1041 and IDES1051.

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. (Old No. 39.323)

IDES2121 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. (Old No. 39.315)

IDES2171 Computer Alded Design 4 L2 T2

Prerequisite: IDES2121.

Computer aided design and drafting systems and their applications in product development. Mathematical optimization techniques. (Old No. 39.324)

IDES3231 Computer Graphic Applications 4 L2 T2

Prerequisite: IDES2171.

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. (Old No. 39.333)

IDES3281 Photography for Industrial Design 2 L1 T1

Prerequisite: IDES2161.

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. (Oid No. 39.334)

| IDES4311 | Graphic Design for | 3 L1 T2 |
|----------|----------------------|---------|
| | Industrial Designers | |

Prerequisite: IDES1031.

The major graphic production processes, and their application in graphic design. Type and typesetting systems. Graphic design projects. (Old No. 39.322)

Design Theory

IDES3271 Form Theory

Prerequisite: IDES1021.

Study of form in nature, art and design. Theories of form. Form organisation, typology, and description. (Old No. 39.326)

IDES2091 Design Methodology 1L1

Prerequisite: IDES1031.

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. (Old No. 39.327)

IDES4361 Professional Practice 1 L1

Prerequisite: IDES2161.

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. (Old No. 39.334)

IDES2151 Product Studies Seminars 2 T2

Prerequisite: IDES1031. Co-requisite: IDES2161.

A series of case studies, in which products and their related systems are analysed for design, engineering, marketing and production factors and qualities. The Seminars are given by panels of staff experts and professional practitioners. The subject is taken during years 2, 3 and 4. Students undertake an assignment based on the Seminars and submit it during Year 4. (Old No. 39.328)

IDES1061 History of Art/Architecture/Design 1 L1 Prerequisite: Nil.

General overview of the history of art, architecture and design from earliest times to the present, within the context of aesthetic and socio-cultural influences. (Old No. 39.316)

IDES4331 History of Consumer Products 0.5 L.5

Prerequisite: IDES1061. Co-requisite: IDES4341.

Products as an aspect of our culture/society and commerce/industry from 1750 to the present day. The development of consumer products is examined within the context of the changes taking place in industry and society. (Old No. 39.329)

| IDES4341 | History of Industrial Design | 0.5 L.5 |
|----------|------------------------------|---------|
|----------|------------------------------|---------|

Prerequisite: IDES1061. Co-requisite: IDES4331.

This subject is normally taken in conjunction with IDES229 and is a chronological study of the emergency and development of industrial design from 1850 to the present day. (Old No. 39.335)

IDES4371 Managing Product Innovation 1 L1 and Development

Prerequisite: IDES2091.

1 L 1

The problem of integrating innovative product design and development within the overall managerial and financial structure of industry. Australian and overseas case studies are given. Particular emphasis is placed on the development of appropriate design management structures and methods for the Australian situation. (Old No. 39.336)

Ergonomics

| IDES1073 | 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. (Old No. 39.317)

IDES2193 Applied Ergonomics

Prerequisite: IDES1073.

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. (Old No. 39.325)

Industrial Experience

IDES4391 Industrial Experience 2

Prerequisite: IDES2161.

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. (Old No. 39.344)

Science and Engineering Subjects

MATH1011 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. (Old No. 10.021B)

| + | HSC Score Range Required |
|------------------------|-----------------------------|
| 2 unit Mathematics* or | 60-100 |
| 3 unit Mathematics or | 1-50 |
| 4 unit Mathematics | 1-100 |

* This refers to the 2-Unit Mathematics subject which is related to the 3-Unit Mathematics subject. It does not refer to the subject 2-Unit Mathematics in Society.

MATH1021 General Mathematics 1C 6 L4 T2

Prerequisite: MATH1011.

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 HSC Mathematics may take eitherMATH001 Mathematics 1 orMATH011 Higher Mathematics 1 instead ofMATH021B andMATH021C, subject to the approval of the Head of Department and the Head of the School of Mathematics. (Old No. 10.021C)

MATH2819 Statistics SA

Prerequisite:MATH1021.

3 L1.5 T1.5

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. (Old No.10.301)

PHYS1939 Physics

4 L4 T2

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; torgue on a coil on a magnetic field; moving coil meter; Wheatstone bridge: potentiometer: Faraday's law: transient circuits. AC overtones; intensity levels; decibels; quality of sound; assessment of noise annovance; airborne sound transmission; sound attenuation; transmission loss; adsorption coefficients; partitions; recommended acoustic criteria: introduction to auditorium acoustics.

**Students lacking appropriate experience of physics are strongly advised to take the appropriate Unisearch bridging courses, after consultation with the Head of Department. (Old No. 1.931)

IDES1082 Engineering Design Mechanics 4 L2 T2

Prerequisites: MATH1021 and PHYS1939

Equilibrium, Friction. Systems of multiforce members, co-planar. Mass centre; centroid. Fluid statics. Plane particle kinematis; rectilinear, motion. Plane particle kinetics; equations motion; work, power, energy; impulse, momentum, impact. (Old No. 39.421)

IDES2132 Introduction to Materials Science 1 L1

Prerequisite: PHYS1939.

Structure and properties of major engineering materials, including polymers and timbers. Including materials recognition and design potential. (Old No. 39.422)

IDES2142 Mechanics of Solids, for 3 L2 T1 Industrial Design

Prerequisite: IDES1082.

Stress and strain. Bars under axial loading. Stresses and deformation due to bending. Strain energy. Flexibility and stiffness. Stress and deformation due to torsion. Helical springs. (Old No. 39.423)

IDES3212 Electrical Engineering for 2 L1.5 T.5 Industrial Design A

Prerequisite: PHYS1939.

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. (Old No. 39.424)

IDES3252 Electrical Engineering for 2 L1 T1 Industrial Design B

Prerequisite: IDES3212.

Feedback Systems. Thermo, active and passive control elements. Analog and digital systems. Microprocessor systems and instrumentation. **(Old No. 39.425)**

IDES2182 Materials and Manufacturing 2 L2 T1 Processes for Industrial Designers A

Prerequisite: IDES2132.

Engineering materials including polymers and timbers and their application in manufacturing processes. The range of processes. (Old No. 39.426)

IDES3202 Materials and Manufacturing 3 L2 T1 Process for Industrial Designers B

Prerequisite: IDES2182.

Economics of production processes, design constraints alternate design and manufacturing strategies. Test procedures. (Old No. 39.427)

IDES4382 Production Management for 2 L1 .5 T.5 Industrial Design

Prerequisite: IDES2182.

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. (Old No. 39.431)

IDES3262 Production Design and 2 L1.5 T.5 Technology for Industrial Design

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. (Old No. 39.432)

Commerce Subjects

MARK2012 Marketing Research 4 L2 T2

Prerequisite: MATH2819.

Sources and types of marketing information. Design, conduct, analysis and reporting of market surveys and experiments. Technique of statistical inference. (Old No. 28.052)

MARK2032 Consumer Behaviour A 4 L2 T2

Prerequisite: Nil.

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. (Old No. 28.032)

| MARK2042 | Consumer | Behaviour | В | 4 L2 T2 |
|----------|----------|-----------|---|---------|
|----------|----------|-----------|---|---------|

Prerequisite: MARK2032

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. (Old No. 28.042)

MARK3073 Strategic Marketing

4 L2 T2

4 L2 T2

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. (Old No. 28.073)

MARK2012 Managerial Marketing

Prerequisite: 3073.

Application of theoretical marketing concepts developed in Strategic Marketing and quantitative techniques developed in "Marketing Models". Based on the planning implementation and appraisal of a major field study. (Old No. 28.083)

ACCT1501 Accounting & Financial 4.5 L2 T2.5 Management 1A

Prerequisite: Nil.

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. (Old No. 14.501)

ACCT1511 Accounting & Financial 4.5 L2 T2.5 Management 1B

Prerequisite: ACCT1501.

Development of basic concepts introduced in ACCT501 Accounting and Financial Management 1A, including corporate reporting, business finance, system design, elementary computer applications. (Old No. 14.511)

MARK2012 Marketing Systems 4 L2 T2

Prerequisite: Nil.

Conceptual introduction to marketing from the systems viewpoint. Evolution and characteristics of marketing 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. (Old No. 28.012)

General Education Program

12 L12

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

Town Planning

Core Subjects

PLAN1111 Introduction to Planning

S1 L4T8

This subject introduces students to the nature and scope of environmental planning and of planning education. It explores techniques of problem solving; describes and assesses the political, social and economic environment within which planning operates; and examines how planning works and the kinds of activities undertaken by planners.

The major aspects covered are: the scope of planning; planning in relation to social and political systems; problem solving; and the limitations of planning. The subject develops skills in observing, analysing, presenting and recording information; and encourages imagination and an enquiring mind.

Lectures, seminars, audiovisual material and applied exercises are used to present the subject matter. The exercises include analysis of media and public attitudes to the environment; assessment and critiques of existing environments; and the application of problem solving techniques to an existing area. (Oid No. 36.112).

PLAN1121 Planning Studies

S2 L6T6

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. (Old No. 36.212)

PLAN1131 Local Planning 1 S1 L3T9

Prerequisites: PLAN1111 and PLAN1121

A lecture, seminar and practical exercise program dealing with the principles and practice of planning, the places where people live, from the small scale of housing to the larger scale of urban districts. All the factors which influence the shape of urban areas, and which affect the quality of life within them: physical factors - noise, sunlight and shade, microclimate and wind, soils and other site engineering factors, traffic and accessibility, and design and aesthetics; with socio-economic factors - demography, ethnicity, and politics; and with the processes of urban change. Students undertake reading and exercises in integrated planning related to their skills and abilities, and by the end of the subject are brought to the level at which they will be able to prepare simple local environmental studies, and to assess development applications with a full awareness of the issues to be considered and the implications of their decisions. (Old No. 36.213)

PLAN1161 Local Planning 2

S2 L3T3

Prerequisites: PLAN1131 and PLAN1351. Co-requisite: PLAN1162

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. (Old No. 36.214)

| PLAN1351 | Planning Law and | S1 L6T6 |
|----------|------------------|---------|
| | Administration | |

Prerequisites: PLAN1131 and PLAN1141.

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, 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. (Old No. 36.215)

PLAN1141 Regional Planning 1

Prerequisites: PLAN1111 and PLAN1121.

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. (Old No. 36.218)

PLAN1171 Regional Planning 2

S1 L2T4

Prerequisite: PLAN1351 and PLAN1141. Co-requisite: PLAN1172.

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. (Old No. 36.219)

PLAN1181 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. (Old No. 36.491)

Related Subjects

PLAN2411 Communication Techniques 1 S2 L1T3

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. (Old No. 36.134)

PLAN2421 Communication Techniques 2 S2 L1 T1

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. (Old No. 36.131)

PLAN2111 Professional Practice

Planning as a profession, professional standards, ethics, preparing studies and plans, preparing and giving evidence, briefing and consulting, management, corporate planning, continuing education. (Old No. 36.210)

PLAN2321 Planning Law and S2 L1T2 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.

PLAN2413 Computers and Information S2 L1T1 Systems

Computer use in the planning professions. Components of computers and their interrelationships; time sharing, batch and stand-alone processing. Exercises using integrated software including data bases, spreadsheets, graphics and word processing. Planning information systems: applications, establishment, maintenance. (Old No. 36.216)

PLAN2414 Computer Applications in S1 L1T1 Planning 1

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

S2 L1

S2 L6T6

the course. Students also may develop and document their own planning-related software. (Old No. 36.223)

PLAN2212 Transportation Planning S2 L1.5T1.5

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. (Old No. 36.228)

PLAN2311 Politics, Power and Policy S1 L1T2

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. (Old No. 36.230)

PLAN2211 Environmental Science 1 S1 L1T1

Elements of the bio-physical environment which may have direct significance for people and their occupation of the earth. These elements are considered both as controls on peoples' activities and as targets for society'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. (Old No. 36.232)

PLAN2221 Environmental Science 2 S1 L1T1

Introduction to methods used to incorporate consideration of physical environmental variables into the planning process. Environmental impact studies. **(Old No. 36.233)**

PLAN2213 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. (Old No. 36.234)

PLAN2217 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. (Old No. 36.235)

PLAN7212 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. (Old No. 36.244)

PLAN2112 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. (Old No. 36.245)

PLAN2114 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. (Old No. 36.452)

PLAN2215 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. (Old No. 36.4611)

PLAN2216 Engineering B S1 L1

The provision of public utilities: town water supplies, sewerage, drainage, flood management, electricity and gas supply, telecommunications, waste disposal. (Old No. 36.4612)

PLAN1162 Integrated Planning Project 1 S2 L2T6

Co-requisite: PLAN1161.

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. (Old No. 36.421)

PLAN1172 Integrated Planning Project 2 S1 L3T9

Co-requisite: PLAN1171.

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. (Old No. 36.422)

PLAN1301 Practical Experience

For the purpose of practical experience covered by Session 2 of Year 3 and Session 1 of Year 4 the student shall 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 diary describing and assessing their experience when they enter Year 4, Session 2. (Old No. 36.503)

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.

PLAN3000 Planning Elective

For initial enrolment only.

PLAN3211 Residential Planning 4CCH

Procedures and legal controls over land subdivision in NSW. land studies in terms of climate, terrain, vegetation, slopes, soils, drainage, etc; land development in relation to earthworks, roads, drainage and other utilities; detailed consideration of road and drainage design; subdivision design, land values and land economics. Innovatory designs. (Old No. 36,8301)

PLAN3111 Local Planning 3 4CCH

Research and design into a topic at the town scale of current concern in planning. (Old No. 36.8302)

PLAN3112 Regional Planning 3 4CCH

Planning methodology in metropolitan areas; a critical overview and a detailed examination of planning processes, policies and programs for selected areas/functions/institutions. (Old No. 36.8303)

PLAN3212 Rural Planning

S3

4CCH

Original research into a topic of current concern in rural planning. (Old No. 36.8304)

PLAN3213 **Urban Conservation**

4CCH

Definitions and philosophy of urban conservation; setting objectives and formulating policy, criteria for selecting and assessing conservation areas; planning consideration to protect and enhance the urban fabric; legislation and mechanisms for urban conservation existing in NSW and elsewhere; potential; some effects of urban conservation (physical, social, economic); attitudes to urban conservation; case study of selecting and planning a conservation area. (Old No. 36.8305)

PLAN3311 Planning Law and Administration 3 4CCH

Aimed at increasing the student's knowledge and awareness of issues in the general areas of Planning Law, Planning Administration and Statutory Planning. (Old No. 36.8306)

PLAN3113 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. (Old No. 36.8307)

PLAN3114 Social Planning

4CCH

Planning responsibilities in equalizing resources distribution. Discussion of consensual goal definition and achievement versus social engineering. Popular participation in planning: why, where and how. Methodology and aids to social planning. Policy formulation and case studies. The program is presented by and with practitioners in the field and includes role playing games and problem solving essay. If possible an involvement in an area project may be substituted for some of the program. (Old No. 36.8308)

PLAN3214 Environmental Psychology 4CCH

The environment considered subjectively and objectively. The individual 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 (natural and built), 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. (Old No. 36.8309)

PLAN3216 Transport and Environmental 4CCH Management

Related to the integration of transport and environmental management at the local level. (Old No. 36.8312)

PLAN3217 Urban Design 2 4CCH

Research into and design of an area, from an urban design perspective. (Old No. 36.8313)

PLAN3421 **Computer Applications** S2 L1T3 in Planning 2

Exploration in depth of an application of personal computers in planning. (Old No. 36.8314)

| PLAN0811 | Planning (Special Subject) | 2CCH |
|--------------|----------------------------|------|
| (Old No. 36. | 4402) | |

PLAN0812 Planning (Special Subject) 4CCH

Students have the opportunity to pursue a subject of special interest related to planning, depending on staffing resources. (Old No. 36.4404)

Subjects Offered to Other Schools

PLAN9111 Town Planning S1 L2T1

Architecture prerequisites: ARCH6104, ARCH6114, ARCH6514, ARCH6904,

Introduction to the purpose, scope and application of planning. The urban planning process. Objectives and means of planning cities. Levels of planning and types of plans: state environmental policies, regional environmental plans, local environmental plans. Problems in planning: equitable distribution of resources. Environment and environmental impact statements. Planning law and administration. Future of cities. (Old No. 36.411)

PLAN7123 Environmental Planning S2 L2

PLAN7124 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 wirtten paper for tutorial discussion. (Old No. 36.4014)

Landscape Architecture

LAND1132 Introduction to Landscape S1 L1 Architecture

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 overeseas and in Australia. Issues and opportunities for landscape architects. (Old No. 37.0001)

LAND1131 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 processing, file management, use of library programs, interpretation of results, basic programming. (Old No. 37.0014)

| LAND1211 | Horticulture for Landscape | S2 L1T1 |
|----------|----------------------------|---------|
| | Architects | |

Prerequisite: BIOS3004.

General horticultural study of propagation techniques, current nursery practice, impact of weeds, plant diseases, planting techniques and forestry practice. Plant collecting and identification. (Old No. 37.1112)

LAND1210 Landscape Analysis S2 L2T4

Prerequisites: GEOG1051, BIOS3004, GEOL5110, LAND1130.

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. (Old No. 37.1302)

LAND2171 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. (Old No. 37.1413).

LAND2110 Environmental Sociology for S1 L1T1 Landscape Architects

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. (Old No. 37.1513)

LAND3210 Land Systems and Management S2 L1T1

Prerequisite: LAND3170, LAND3150.

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. (Old No. 37.1616)

| LANDS ISU Nesearch Methods SILI | LAND3130 | 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 LAND4330 Landscape Thesis. (Old No. 37.3005)

LAND4330 Landscape Thesis

Prerequisites: LAND3130, LAND3270.

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. (Old No. 37.3007)

LAND1130 Landscape Graphics 1

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. (Old No. 37.3101)

LAND1230 Landscape Graphics 2 S2 L2T2

Prerequisite: LAND1130.

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. (Old No. 37.3202) LAND2271 Planting Design S2 L1T1

Prerequisite: LAND1211, LAND2170.

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. (Old No. 37.5014)

| LAND1170 | Design 1 | 91 L1T2 |
|----------|----------|---------|
|----------|----------|---------|

Prerequisite: Nil.

F

S1 L2T2

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. (Old No. 37.5101)

| LAND1270 | Design 2 | S2 L1T2 |
|----------|----------|---------|
|----------|----------|---------|

Prerequisite: LAND1170, LAND1130.

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. (Old No. 37.5202)

LAND2170 Landscape Design 1 S1 L2T8

Prerequisite: LAND1270, LAND1210, LAND1230.

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. (Old No. 37.5313)

| LAND2270 | Landscape Design 2 | S2 L2T8 |
|----------|--------------------|---------|
|----------|--------------------|---------|

Prerequisite: LAND2170.

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. (Old No. 37.5414)

LAND3170 Landscape Design 3 S1 L2T6

Prerequisites: LAND2270, LAND2110, LAND2290.

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. (Old No. 37.5505)

LAND3270 Landscape Design 4

Prerequisite: LAND3170.

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. (Old No. 37.5606)

S2 L2 T6

LAND4170 Landscape Design 5 S1 L1T2

Prerequisites: LAND3270, LAND3250.

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. (Old No. 37.502)

LAND4270 Landscape Design 6 S2 L2T10

Prerequisites: LAND4170, 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 LAND4170 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. (Old No. 37.503)

LAND4171 Urban Landscape Design S1 L1T5

Prerequisites: LAND3270.

An exploration of the relationships within the fabric of the urban environment including concepts of city functions and the analysis of disparate parts of the city with physical design being the primary focus. Context and place, history and theory are considered as well as analytical techniques. Design studios, lectures and seminars. (Old No. 37.501)

LAND3191 Professional Practice A S1 L2

Prerequisites: LAND2270, LAND2290.

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. (Old No. 37.7113)

| LAND1290 | Landscape Materials | S2 L1T2 |
|----------|---------------------|---------|
| | and Construction | |

Prerequisite: Nil.

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. (Old No. 37.7203)

LAND3291 Professional Practice B S2 L2

Prerequisite: LAND3191, LAND3170.

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. (Old No. 37.7114)

| LAND2191 Landscape Technology A Statements S | S1 L1T2 |
|--|---------|
|--|---------|

Prerequisite: LAND1290.

Site surveying and mapping techniques. Land surface manipulation including contour planning and basic earthworks. Field work exercises. (Old No. 37.7204)

LAND2290 Landscape Technology B S2 L1T2

Prerequisite: LAND2191.

Landscape construction methods, including documentation of grading, drainage, earthworks and structures. Application of materials in detailed design development. (Old No. 37.7205)

LAND3190 Landscape Engineering A S1 L2T1

Prerequisite: LAND2290, LAND2270.

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. (Old No. 37.7515)

| LAND3290 | Landscape Engineering B | S2 L1T2 |
|----------|-------------------------|---------|
|----------|-------------------------|---------|

Prerequisite: LAND3190, LAND3170.

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. (Old No. 37.7616)

LAND3150 Landscape Planning 1 S1 L2T2

Prerequisite: LAND2110, LAND2270.

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. (Old No. 37.9105)

LAND3250 Landscape Planning 2 S2 L2T2 Prerequisite: LAND3150.

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. (Old No. 37.9206)

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.

| LAND0002 | Site Planning Elective | S2 L2 |
|----------|------------------------|-------|
|----------|------------------------|-------|

2 credit points.

Not offered in 1991.

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. (Old No. 37.100)

| LAND0003 | Planting Design | Elective | S2 L | .2 |
|----------|------------------------|----------|------|----|
| | | | | |

2 credit points.

The selection and use of plant materials within the built environment with particular reference to visual and ecological considerations. (Old No. 37.300)

LAND0004 Urban Landscape Elective S1L2

2 credit points.

Not offered in 1991.

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. (Old No. 37.400)

LAND0005 Recreation Planning Elective S1 L2

2 credit points. Not offered in 1991.

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. (Old No. 37.500)

Subjects Offered to Other Schools

LAND0001 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. (Old No. 37.224)

Botany

BIOS3004 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. (Old No. 43.202)

Mines

GEOL5110 Geology for Landscape S1 L1 Architecture

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. (Old No. 25.5222)

Geography

GEOG1051 Global Environmental S1 L2T2 Problems and Processes.

Prerequisite: Nil.

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: soll, vegetation and drainage relationships, problems of soll 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. (Old No. 27.818) Architecture

.

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 Head of School concerned.

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

10. Graduate Diploma in Housing and Neighbourhood 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.

Subjects in the Master and Diploma of Landscape Planning courses are nomally timetabled on three afternoons per week.

Subjects in the Diploma of Housing and Neighbourhood Planning (which is under review) are normally timetabled one afternoon and evening per week.

Graduate School of the Built Environment

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 consdervation, 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 (MBErrv).

Eligibility for Enrolment

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

1120 Doctor of Philosophy

Doctor of Philosophy

PhD

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

1121 Doctor of Philosophy

Doctor of Philosophy

PhD

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

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

Course Structure

The program is normally taken over four full-time sessions (two academic years). In special circumstances where the research project can be properly served and with the concurrence of the Academic Board, some of this time may be fuffilled 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) GSBE0113 | New Development Studies | 2 credit points |
|--------------|-------------------------|-----------------|
| | Research Studies | 2 credit pointe |

 (2) GSBE0203
 Research Studies
 2 credit points

 (3) GSBE0303
 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 Building, Bachelor of Sc

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.

Architecture

Course Subjects

| Session 1 – C | Core | |
|---------------|---------------------------------|-----|
| PHYS7159 | Acoustic Theory | 2 |
| GSBE0101 | Mechanical Shock and Vibration | 2 |
| GSBE0201 | Acoustic Measuring Systems | |
| | and Electroacoustics | - 2 |
| GSBE0301 | The Ear, Hearing and | |
| | Hearing Conservation | 2 |
| Session 2 E | lective | |
| GSBE0401 | Community Noise | 4 |
| GSBE0501 | Noise control in Buildings | 4 |
| Session 3 – E | lective | |
| GSBE0601 | Noise Control in Industry | 4 |
| GSBE0701 | Advanced Physical Acoustics | 4 |
| GSBE0801 | Auditorium Acoustics | 3 |
| Session 3 – C | Compulsory | |
| GSBE0901 | Graduate Project A | 5 |
| | (Prerequisite 10 credit points) | |
| Session 4 - C | Compulsory | |

(Prerequisite 39.994G) 10 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.

Graduate Project B

8130

GSBE1001

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

Credit Points

> 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

| | Totel Contect Hours | Credit Points |
|----------------------------|---------------------------|------------------|
| Contextual Studies | 14 | 1 |
| Architectural History | 42 | 3 |
| Conservation Management | 42 | 3 |
| Analysis and Documentation | 84 | 6 |
| Conservation Technology | 210 | 15 |
| Graduate Project | 112 | 8 |
| | 504 | 36 |

Typical Pattern of Full-time Study

| | | Hrs | Credits |
|-----------|----------------------------|---------|---------|
| Session 1 | | | |
| GSBE0102 | Contextual Studies | 14 | 1 |
| GSBE0202 | Architectural History | 42 | 3 |
| GSBE0402 | Analysis and Documentation | A 56 | 4 |
| GSBE0502 | Analysis and Documentation | B 28 | 2 |
| GSBE0602 | Conservation Technology A | 28 | 2 |
| GSBE0802 | Conservation Technology C | 56 | 4 |
| GSBE1002 | Graduate Project | 56 | _ |
| | | 252 | 14 |
| Session 2 | | | |
| GSBE0302 | Conservation Management | 42 | 3 |
| GSBE0702 | Conservation Technology B | 70 | 5 |
| GSBE0902 | Copnservation Technology D | 56 | 4 |
| GSBE1002 | Graduate Project | 56 | - |
| | | Upon | |
| | Com | oletion | 8 |
| | | 252 | 22 |

Typical Pattern of Part-time Study

| | | Hrs | Credits |
|-----------|----------------------------|------------------------|-----------------|
| Session 1 | | | |
| GSBE0102 | Contextual Studies | 14 | 1 |
| GSBE0202 | Architectural History | 42 | 3 |
| GSBE0402 | Analysis Documentation A | 56 | 4 |
| GSBE0602 | Conservation Technology A | <u>28</u> 140 | 4 _2 10 |
| Session 2 | | | |
| GSBE0502 | Analysis and Documentation | B28 | 2 |
| GSBE0702 | Conservation Technology B | 70 | 5 |
| GSBE1002 | Graduate Project | 28 | |
| | | 126 | $\frac{-}{7}$ |
| Session 3 | | | · |
| GSBE0802 | Conservation Technology C | 56 | 4 |
| GSBE1002 | Graduate Project | | |
| | | <u>56</u> 112 | |
| Session 4 | | | |
| GSBE0302 | Conservation Management | 42 | 3 |
| GSBE0902 | Conservation Technology D | 56 | 4 |
| GSBE1002 | Graduate Project | 28 | |
| 00021002 | Graduato i roje et | Upon | |
| | | | 8 |
| | com | pl <u>etion</u> 126 | <u>_8</u> 15 |
| | | 120 | 15 |

Department of Industrial Design

Head of Department

Mr. John Redmond.

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 specializiation.

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

Admission Requirements

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

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

Course Structure

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

The MID degree course comprises 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.

.

Course Subjects

| | | Credit Points |
|----------------------|--|------------------|
| Common C | ore | |
| IDES5071 IDES5193 | Industrial Design Studies | 2 |
| | Ergonomics for Industrial Designers | 2 |
| IDES5124 | Business Studies for | |
| | Industrial Designers | 2 |
| IDES5152 | Manufacturing Technology | 2 |
| IDES6171 | Industrial Experience* | <u>2</u> 10 |
| MID only | | 10 |
| IDES6081 | Graduate Project (MID) | 14 |
| IDES6101 | Design Theory | 4 |
| IDES5131 | Industrial Design | 4 |
| | Approved Electives** | $\frac{6}{28}$ |
| MSc(IndDes | 3) only | 28 |
| IDES5091 | Design Media and | |
| | Communication | 2 |
| IDE\$5111 | Visual Thinking*** | 2 |
| IDES5141 | Industrial Design A | 6 |
| IDES6161 | Industrial Design B | 6 |
| IDES6181 | Graduate Project (MSc(IndD | es))8 |
| | Approved electives** | |
| | •• | 28 |

* 4 week block during recesses. Part-time students in approved employment are exempt.

** Approved electives may be taken from subjects offered in other schools of the University of New South Wales, subject to the approval of the Heads of the Graduate School of the Built Environment and the school offering the subject.

MID electives may be chosen to increase specialist knowledge relevant to the student's theory studies, project report or planned career activities. At least six credits must be taken of which up to four credits may be taken in undergraduate units at half their point value.

MSc(IndDes) electives are taken in approved subjects directly related to the development of the student's industrial deisgn knowledge and skill. At lest four credits must be taken of which up to two credits may be taken in undergraduate units at half their point value. *** Graduates of visually oriented courses, eg architecture, are normally exempt.

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)

| | | Hours per week | |
|---|------------------------------|---------------------|----------------|
| Common Co | ore | • | S162 |
| IDES5071 | Industrial Design Studies | 1 | 1 |
| IDES5193 | Ergonomics for Industrial | | |
| | Designers | | 2 |
| IDES5124 | Business Studies for Industr | ial | |
| | Designers | 2 | |
| IDES5152 | Manufacturing Technology | 2 | |
| IDES6171 | Industrial Experience* | - | |
| | | | |
| MID only | | | |
| • | | Hours p | er week |
| | | S1 | S2 |
| IDES6081 | Graduate Project (MID) | 3** | 12** |
| IDES6101 | Design Theory | 1 | _з |
| IDES5131 | Industrial Design | | - |
| | Approved Electives | Å | 2 |
| Ten hours pe | | 4 <u>4</u> 17 | $\frac{2}{20}$ |
| · • · · · · · · · · · · · · · · · · · · | | ., | 20 |
| MSc(IndDes |) only | | |
| IDES5091 | Design Media and | | |
| | Communication | 2 | |
| IDES5111 | Visual Thinking*** | 2 | |
| IDES5141 | Industrial Design A | 6 | |
| IDES6161 | Industrial Design B | ž | 4 |
| IDES6181 | Graduate Project (MSc(IndE | - | 4 8** |
| DECONOT | Approved Electives | ,00,1 | 4 |
| Total Hours n | per week MSc(IndDes) | 27 | $\frac{4}{20}$ |
| i otar nouis p | a moon moon moon moon | 21 | 20 |
| Typical Pa | art-time Study Pattern | s for M | ID |

and MSc(IndDes)

.....

| | | Hours p | er week |
|---------------|-------------------------------------|---------------------|----------------------|
| Common Core | | S1 . | S 2 |
| IDES5071 | Industrial Design Studies | 1 | 1 |
| IDES5193 | Ergonomics for Industrial | | |
| | Designers | | 2 |
| IDES5152 | Manufacturing Technology | 2 | |
| IDES6171 | Industrial Experience * | | |
| | | S3 | S4 |
| IDES5124 | Business Studies for Industr | ial | |
| | Designers | 2 | |
| IDES6171 | Industrial Experience* | | |
| MID only | | S1 | S2 |
| IDES6081 | Graduate Project (MID) | | 3** |
| IDES6101 | Design Theory | | 2 |
| IDES5131 | Industrial Design | 4 | _ |
| | Approved Electives | | 2 |
| Total hours p | er week MID | - 7 | 2 10 S4 |
| • | | S 3 | S4 |
| IDES6081 | Graduate Project (MID) | 3** | 9** |
| IDES6101 | Design Theory | 2 | |
| | Approved Electives | 2 <u>3</u> 10 | 1 |
| Total hours p | er week MID | 10 | $\frac{1}{10}$ |
| MSc(IndDes |) only | S1 | S2 |
| IDES5091 | Design Media and | | |
| | Communication | 2 | |
| IDES5111 | Visual Thinking*** | 2 2 | |
| IDES5141 | Industrial Design A | | 6 |
| | Approved electives | 1 | 1 |
| Total hours p | er week MSc(IndDes) | 1 8 | 10 |
| MSc(indDe | B) only | S 3 | S4 |
|-----------|--------------------------|------------|-----|
| IDES6161 | Industrial Design B | 6 | |
| IDES6181 | Graduate Project MSc(Inc | lDes) | 8** |
| | Approved Electives | <u>́1</u> | 1 |
| | per week MSc(IndDes) | 9 | 9 |

* A four week period during the recess. Part-time students in approved employment are normally exempt. ** Normal bours.

*** Graduates of visually oriented courses, eg architecture, are normally exempt.

School of Architecture

The School of Architecture offers facilities for research and welcomes enquiries from students who wish to pursue programs for the degrees of Master of Architecture (MArch) or Doctor ofPhilosophy (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

| | Credit points | |
|--|---------------|----|
| | S1 | S2 |
| Architectural Synthesis 1 and 2 (core) | 9 | 11 |
| Electives | 6 | 4 |
| | 15 | 15 |
| Course Award | | 30 |

| | Cred | it points |
|-------------|-------------------------------------|-----------|
| Core Subjec | ts | |
| ARCH9010 | Architectural Synthesis 1 | 9 |
| ARCH9020 | Architectural Synthesis 2 | 11 |
| Electives | | |
| ARCH9300 | Architectural Theory | 2 |
| ARCH9310 | Ideologies of Modern Architecture | 2 |
| ARCH9320 | Architectural Impact Studies | 2 |
| ARCH9330 | Cultural Influences in Civic Design | 2 |
| ARCH9340 | Structure and Architectural Space | 2 |
| ARCH9350 | Design for Industrialized Buildings | 2 |
| ARCH9360 | Resources for Buildings | 2 |

Subject to approval of the appropriate Head of School and the Head of School of Architecture, students may enrol in other graduate subjects offered by the Faculty: subject to the same conditions, students may also enrol in undergraduate subjects offered in the University but only to the maximum contributing total of 4 credit units calculated at half their value as an undergraduate subject.

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 active programs of coursework and research studies and welcomes enquiries from students who wish to pursue programs for the degrees of Master of Building (MBuild), Master of Project Management (MPM) (part-time), Master of Construction Management (MCM) (full-time) or Doctor of Philosophy (PhD). Graduates enrolled in these courses need not necessarily be building graduates. Prospective students should consult the Head of School to discuss their research interests prior to making a formal application.

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

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

1140 Doctor of Philosophy

Doctor of Philosophy PhD

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

2210 Master of Building

Master of Building MBuild

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

8116

Master of Project Management Course

Master of Project Management MProjMgt

Course Co-ordinator

Mr. James Senogles

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 BLDG5101 BLDG5102 BLDG5103 Session Two BLDG5201 BLDG5203 BLDG5204

Session Three BLDG5301 BLDG5302 BLDG5303

Session Four BLDG5401 BLDG5402 BLDG5403 Session Five and Six BLDG5100 Economics and Finance Management Framework Computers Management

Managerial Economics Project Planning and Control Personnel Management Techniques

Project Feasibility Building Contracts Management of the Design and Construction Process

Management of Buildings Project Applications Process Applications

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 IELTS Test or another equivalent recognised test.

4. The tuition fee for 1991 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 6 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

| BLDG6151 | Construction Methods and Techniques |
|-------------|--------------------------------------|
| BLDG6152 | Management of Construction Plant |
| BLDG6154 | Economics in Construction |
| BLDG6155 | Computers in Construction Management |
| BLDG6156 | Advances in Building Materials |
| BLDG6253 | Construction Planning and Control |
| BLDG6257 | Quantitative Methods in Management |
| Session Two | - |
| BLDG6153 | Management of Construction |
| BKDG6157 | Property Management |
| BLDG6251 | International Construction Practice |
| BLDG6252 | Building Services |
| BLDG6255 | Contracts Management and Law |
| BLDG6256 | Cost Planning and Analysis |
| BLDG6258 | Construction Management Applications |

Other Subjects

| BLDG6150 | Industry Training |
|----------|------------------------|
| BLDG6250 | Research Report |

School of Landscape Architecture

The School of Landscape Architecture has an active program of research and advanced study and encourages enquiries from students who wish to pursue graduate education. The degrees Doctor of Philosophy (PhD) and Master of Landscape Architecture are available for those wishing to engage in research. The degrees Master of Landscape Planning (MLP) and Graduate Diploma in Landscape Planning (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.

Course Program

Core Subjects

| Core Subject | 8 | Credits |
|---------------------|--------------------------------|---------|
| LAND9010 | Environmental Heritage Studies | 3 |
| GEOG9270 | Legislative Aspects | 3 |
| LAND9111 | Landscape Planning | 3 |
| LAND9212 | Landscape Planning Methods | 3 |
| LAND9213 | Land Systems and Management | 3 |
| LAND9214 | Visual Landscape Assessment | 3 |
| Electives | | |
| GEOG9210 | Computer Mapping and | |
| | Data Display | 3 |
| GSBE0602 | Conservation Technology A | 3 |
| GSBE0102 | Contextual Studies | 3 |
| GEOG2071 | Geographic Information Systems | 3 |
| SURV9604 | Land Information Systems | 3 |
| GEOG9150 | Remote Sensing Applications | 3 |
| Project | • • • • | |
| LAND9001 | Landscape Project | 9 |
| LAND9002 | Landscape Research Project | 18 |

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 unversity 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

| Core Subject | - | Credits |
|--------------|--------------------------------|---------|
| GEOG9270 | Legistlative Aspects | 3 |
| LAND9111 | Landscape Planning | 3 |
| LAND9212 | Landscape Planning Methods | 3 |
| LAND9003 | Landscape Planning Project | 6 |
| LAND9214 | Visual Landscape Assessment | з |
| Electives | · | |
| GEOG9210 | Computer Mapping and | |
| | Data Display | 3 |
| GSBE0602 | Conservation Technology A | 3 |
| GSBE0102 | Contextual Studies | 3 |
| GEOG9240 | Geographic Information Systems | 3 |
| SURV9604 | Land Information Systems | 3 |
| LAND9213 | Land Systems and Management | 3 |
| GEOG9150 | Remote Sensing Applications | 3 |
| LAND9010 | Environmental Heritage Studies | 3 |

School of Town Planning

1150 Doctor of Philosophy

Doctor of Philosophy PhD

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

2230

Master of Town Planning (by Research)

Master of Town Planning MTP

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

Professional Recognition

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

Course Work

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

5200

Housing and Neighbourhood Planning Graduate Diploma Course†

Graduate Diploma GradDip

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

Admission Requirements

An applicant for admission to the Housing and Neighbourhood Planning course shall be:

1. a graduate in Architecture of the University of New South Wales; or

2. a person with such other qualifications as may be proved by Faculty.

Part-time

Year 1

| PLAN0511 | Theory of Neighbourhood Planning 1 |
|----------|---|
| PLAN0512 | Theory of Neighbourhood Planning 2 |
| PLAN0171 | Practice of Neighbourhood Planning 1 |
| PLAN0172 | Practice of Neighbourhood Planning 2 |
| PLAN0212 | Land and Housing Economics |
| PLAN0213 | Urban Sociology |

Year 2

| PLAN0173 | Practice of Neighbourhood Planning 3 |
|----------------------|---|
| PLAN0174 | Practice of Neighbourhood Planning 4 |
| PLAN0211 PLAN0142 | Communications and Public Utilities Housing Law and Administration |

†This course is under review and intending applicants are advised to contact the School at the first opportunity to obtain further information on course format and for subject descriptions.

Architecture

Graduate Study

Subject Descriptions

Identification of Subjects

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'.

In 1990 a new system of subject identification is introduced. Each approved subject of the University will be identified by a sequence of eight characters, consisting of a four character alphabetical prefix which will identify the organizational unit responsible for administering the subject, and a four digit numeric suffix to identify the subject.

Subject identifiers are approved by the Registrar and the system of allocation is based on the following guidelines:

1. The authority offering the subject, normally a School of the University, is indicated by the four character alphabetical prefix.

2. Each subject identifier is unique and is not used for more than one subject title.

3. Subject numbers which have previously been used are not used for new subject titles.

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.

Appropriate subjects for each school appear at the end of each school section.

The identifying alphabetical prefixes for each organizational unit are set out on the following pages.

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 General Education subjects. For General Education subjects see the General Education 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

wks weeks of duration

C Credit point value

- CR Credit
- **DN** Distinction
- **HD** High Distinction
- X External

Architecture

| Prefix | k Organizational unit | Faculty |
|--------|--|---|
| ABIO | School of Applied Bloscience | Applied Science |
| ACCT | School of Accounting | Commerce & Economics |
| ACHM | Department of Chemistry | University College |
| ACMA | Department of Civil Engineering | University College |
| ACSC | Department of Computer Science | University College |
| | Department of Economics & Management | University College |
| AELE | Department of Electrical Engineering | University College |
| AENG | Department of English | University College |
| AERO | Aeronautical Engineering | Engineering |
| AGOC | Department of Geography & Oceanography | University College |
| AHIS | Department of History | University College |
| AINT | UniversityCollege(Interdisciplinary) | University College |
| AMAT | Department of Mathematics | University College |
| AMEC | Department of Mechanical Engineering | University College |
| ANAT | School of Anatomy | Medicine |
| APHY | Department of Physics | University College |
| APOL | Department of Politics | University College |
| APSE | Faculty of Applied Science | Applied Science |
| ARCH | School of Architecture | Architecture |
| ARTS | Faculty of Arts | Arts |
| ASIA | Asian Studies | Arts |
| AUST | Australian Studies | Arts |
| BIOC | School of Biochemistry | Biological & Behavioural Sciences |
| BIOM | Centre for Biomedical Engineering | Engineering |
| BIOS | School of Biological Science | Biological & Behavloural Sciences |
| BIOT | Department of Biotechnology | Applied Science |
| BLDG | School of Building | Architecture |
| BSSM | Board of Studies in Science & Mathematics | |
| CEIC | School of Chemical Engineering & Industrial Chemistry | Applied Science |
| CHEM | School of Chemistry | Science |
| CHEN | Department of Chemical Engineering | Applied Science |
| CHIN | Chinese | Arts |
| SIML | School of Civil Engineering | Engineering |
| MED | School of Community Medicine | Medicine |
| OFA | College of Fine Arts | |
| OMM | Faculty of Commerce | Commerce & Economics |
| OMP | Computer Science | Engineering |
| СОН | Department of Economic History | Commerce & Economics |
| COM | Department of Econometrics | Commerce & Economics |
| | | |

_____.

| Prefix | C Organizational unit | Faculty |
|--------|--|--------------------------------------|
| ECON | Department of Economics | Commerce & Economics |
| ECOS | School of Economics | Commerce & Economics |
| EDST | School of Education | Professional Studie |
| elec | School of Electrical Engineering & Computer Science | Engineering |
| ENGL | School of English | Arts |
| EURO | European Studies | Arts |
| EXPA | School of Expressive & Performing Arts | Professional Studie |
| FIBR | School of Fibre Science & Technology | Applied Science |
| FINS | School of Banking & Finance | Commerce & Economics |
| FOOD | Department of Food Science and Technology | Applied Science |
| FREN | School of French | Arts |
| FUEL | Department of Fuel Technology | Applied Science |
| GENS | Centre for Liberal & General Studies | |
| GEOG | School of Geography | Applied Science |
| GEOL | Department of Applied Geology | Applied Science |
| GERS | School of German Studies | Arts |
| GREK | Modern Greek | Arts |
| gsbe | Graduate School of the Built Environment | Architecture |
| HEAL | School of Health Services Management | Professional Studie |
| HIST | School of History | Arta |
| HOSP | School of Marketing | Commerce & Economics |
| IDES | Department of Industrial Design | Architecture |
| INDC | Department of Industrial Chemistry | Applied Science |
| INDO | Indonesian . | Arta |
| INFS | School of Information Systems | Commerce & Economics |
| INTD | Interdisciplinary Studies | Arts |
| IROB | School of Industrial Relations & | Commerce & |
| JAPN | Organ. Behaviour School of Marketing | Economics Commerce & Economics |
| KCME | Key Centre for Mines | Applied Science |
| LAND | School of Landscape Architecture | Architecture |
| LAWS | School of Law | Law |
| LEGT | Department of Legal Studies & Taxation | Commerce & Economics |
| LIBS | School of Librarianship | Professional Studie |
| | Manufacturing Engineering | Engineering |
| MARK | School of Marketing | Commerce & Economics |
| MATH | School of Mathematics | Science |
| | School of Materials Science and Engineering | Applied Science |
| MDCN | School of Medicine | Medicine |
| MDSG | Med/Surg.Clinical Studies | Medicine |
| MECH | School of Mechanical Eng. & Manufacturing Eng. | Engineering |
| MEED | School of Medical Education | Medicine |

Graduate Study: Subject Descriptions

| Prefix | organizational unit | Faculty |
|---------------|---|---|
| MFAC | Medical Faculty (Admin) | Medicine |
| MICR | School of Microbiology | Biological & Behavioural Sciences |
| MINE | Department of Mining Engineering | Applied Science |
| MNGT | Australian Graduate School of Management | |
| MUSł | School of Music | Arts |
| NAVL | Naval Architecture | Engineering |
| OBST | School of Obstetrics & Gynaecology | Medicine |
| OPTM | School of Optometry | Science |
| PAED | School of Paediatrics | Medicine |
| PATH | School of Pathology | Medicine |
| PHIL. | School of Philosophy | Arts |
| PHPH | School of Physiology & Pharmacology | Medicine |
| PHYS | School of Physics | Science |
| PLAN | School of Town Planning | Architecture |
| POLS | School of Political Science | Arts |
| POLY | Department of Polymer Science | Applied Science |
| PSCY | School of Psychiatry | Law |
| PSYC | School of Psychology | Biological & Behavioural Sciences |
| PTRL | Department of Petroleum Engineering Studies | Applied Science |
| Remo | Centre for Remote Sensing | Engineering |
| RUSS | School of Russian Studies | Arts |
| SAFE | Centre for Safety Science | Engineering |
| SCTS\ HPST | School of Science & Technology Studies | Arts |
| SLSP | Department of Social Science & Policy | Arts |
| SLST | School of Sport & Leisure Studies | Professional Studie |
| SOCI | School of Sociology | Arts |
| SOCW | School of Social Work | Professional Studie |
| SPAN | Spanish & Latin American Studies | Arts |
| SURG | School of Surgery | Medicine |
| SURV | School of Surveying | Engineering |
| TEDG | School of Primary & Computer Education (grad) | Professional Studie |
| TEED | School of Primary & Computer Education (undergrad) | Professional Studie |
| tesl. | TESOL | Arts |
| TEXT | Department of Textile Technology | Applied Science |
| THST | School of Theatre Studies | Arts |
| USOM | School of Mines | Applied Science |
| NOMS | Women Studies | Arts |
| NOOL | Department of Wool & Animal Science | Applied Science |
| | | |

Architecture

ARCH9010 Architectural Synthesis 1 C9 (Old No. 11.901G)

ARCH9020 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. (Old No. 11.902G)

ARCH9300 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. (Old No. 11.930G)

ARCH9310 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. (Old No. 11.931G)

ARCH9320 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. **(Old No. 11.932G)**

ARCH9330 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. (Old No. 11.933G)

ARCH9340 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. (Old No. 11.934G)

ARCH9350 Design for Industrialized Buildings 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. (Old No. 11.935G)

ARCH9360 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. (Old No. 11.936G)

Building

Master of Project Management

BLDG5100 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. (Old No. 35.100G)

BLDG5101 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. (Old No. 35.101G)

BLDG5102 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. (Old No. 35.102G)

BLDG5103 Computers in Management S1 L2T1

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; data communications and networks. Computer system acquisition: hardware, maintenance, environment, software, ongoing support, hardware and software maintenance. (Old No. 35.103G)

BLDG5201 Managerial Economics

S2 L4

Topics included are: discounted cash flow technique; time series and forecasting distributions and probabilities; portfolio management theories. (Old No. 35.201G)

BLDG5203 Project Planning and Control S2 L2 T1 Techniques

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. (Old No. 35.203G)

BLDG5204 Personnel Management S2 L2 T1 Techniquesques

Australian labour market, recruitment and remuneration and training. Interpersonnel relationships in the work place, motivation and negotiation, group behaviour and individual behaviour. Industrial relations in Australia with particular emphasis on the building industry. Statutory responsibilities of employing labour (safety, welfare, superannuation, awards, equal opportunity, etc.). (Old No. 35.204G)

BLDG5301 Project Feasibility

S1 L2 T1

Design feasibility: feasibility studies; cost planning practice; economics of services in building; maintenace methods and costs. Land economies: land resources; market and location of urban land uses; spatial and urban growth; property and investment markets; economics of development; investment appraisal; environmental impact studies. (Old No. 35.301G)

BLDG5302 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. (Old No. 35.302G)

BLDG5303 Management of the Design S1 L2 T1 and Construction Process

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. (Old No. 35.303G)

BLDG5401 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. (Old No. 35.401G)

BLDG5402 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. Presentation of case studies. Tutorial sessions. Presentation of student case studies. **(Old No. 35.402G)**

BLDG5403 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. (Old No. 35.403G)

Master of Construction Management

BLDG6150 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. (Old No. 35.150G)

BLDG6151 Construction Methods and S1 L2 T1 Techniques

Appropriate selection and use of current techniques and systems in all construction phases. (Old No. 35.151G)

BLDG6152 Management of Construction Plant S1 L2 T1

Selection, control and optimisation of equipment and plant operations. (Old No. 35.152G)

BLDG6153 Management of Construction S2 L2 T1

Organisation of projects from design to commissioning; time and value management; team building and motivation. (Old No. 35.153G)

BLDG6154 Economics in Construction

Economics of the construction industry; its inter-relationship with national and trans-national economics. (Old No. 35.154G)

BLDG6155 Computers in Contruction S1 L2 T1 Management

Information systems, communication networks and modelling techniques in construction management from micro computer to main frame. (Old No. 35.155G)

BLDG6157 Property Management S2 L2 T1

The property development process; rent or buy decision; property management; property maintenance; economics of refurbishment; investment performance; taxation. (Old No. 35.157G)

BLDG6250 Research Report

A specialised individual research study, under staff supervision, into an approved aspect of construction management or a related topic. (Old No. 35.250G)

BLDG6251 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. (Old No. 35.251G)

BLDG6252 Building Services

S2 L2 T1

S1 L2 T1

The design, installation and coordination of building services: hydraulic, electrical, air conditioning, communication and transportation. (Old No. 35.252G)

BLDG6253 Construction Planning and Control S2 L2 T1

Programming, scheduling and control systems, both manual and computerised. (Old No. 35.253G)

BLDG6255 Contracts Management and Law S2 L2 T1

Selection of contract form; preparation of documents; procedures, disputes and claims; arbitration; legal aspects; risk and insurance. (Old No. 35.255G)

BLDG6256 Cost Planning and Analysis S2 L2 T1

Feasibility studies, cost planning, value analysis and value engineering. (Old No. 35.256G)

BLDG6257 Quantitative Methods S1 L2 T1 in Management S1 L2 T1

Statistical analysis and systems modelling methods in construction management. (Old No. 35.257G)

BLDG6258 Construction Management S2 L2 Applications

The objective of the subject is to expose students to the realities of involvement with a large building or construction project. Detailed analysis of each stage of the project case study: Feasibility, Design and Documentation, Pre-Construction, Construction and Commissioning.

Town Planning

PLAN0211 Communications and Public Utilities

Interaction of land use and transportation. Vehicular and pedestrian circulation patterns. Traffic function and capacity of district and neighbourhood roads. Principles and practice of local road construction, water supply, sewage treatment and disposal, and drainage. Local supply of electricity, gas, telephone, and other services. (Old No. 36.922G)

PLAN0212 Land and Housing Economics

Outline of principles and practice of land valuation with special emphasis on valuation of residential land and buildings. Rating and taxing systems. Effect of zoning and redevelopment on land values. National income and its distribution. Goals of a modern economy. Demand and supply analysis. Economics of road transport and public utilities in urban development. The costs of urban growth. Cost-benefit analysis. (Old No. 36.923G)

PLAN0213 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. (Old No. 36.924G)

PLAN0111 Introduction to Planning (G)

Structure of towns, cities and regions. Needs and activities of people. Land use, transport and service systems. Planning theories, aims and objectives. Planning at different scales and in different time frames. Planning as a process. Planning studies, information systems, statistics, research methodology, computer applications. (Old No. 36.934G)

PLAN1021 Local Planning 1 (G)

L3

SS L3

Theories at the local level: neighbourhood and precinct concepts, local community structure, survey and analysis. Subdivision and housing layout, basic transportation planning and management, street design, landscaping, utilities. Practice of planning new neighbourhoods and proposals for conservation and redevelopment. (Old No. 36.935G)

PLAN0151 Local Planning 2 (G)

SS L3

SS L3

Theories at district/new town level. Structure, survey and analysis. Environmental and social analysis. Elements, industrial and commercial areas, transport systems, community services, open space, institutional land use. Integrated planning: alternatives, impacts, evaluation. Costing and programming. Implementation and development management. (Old No. 36.936G)

PLAN0131 Regional Planning 1 (G)

Theories at the metropolitan level. Accessibility, equity, economics, politics. Structure and organization, land use and transportation relationships. Forecasting, alternative futures. Incremental decision making. Integrating local and metropolitan planning. (Old No. 36.937G)

PLAN0161 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 conservation. Environmental impact and assessment. (Old No. 36.938G)

PLAN0141 Planning Law and Administration SS L3

Theory and practice of statutory planning. The legal framework. The administrative framework. Environmental planning and related legislation. Techniques and procedures in transforming policies and proposals into statutory instruments. Development control. Planning appeals and the operation of the Land and Environmental Courts. (Old No. 36.939G)

PLAN0911 The Organization of Town Planning

Aims, means and consequences of town planning in Australia. Aims of planning: organization of the environment in respect of space and time, interrelationship of functions, equity of resource distribution, human satisfaction, the nature of the planning approach. Means of planning: overview of the planning process, laws related to planning, planning assessment procedures, environmental management at different levels, decision-makiong 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. (Old No. 36.945G)

Landscape Architecture

LAND9001 Landscape Project

F

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. (Old No. 37.101G)

LAND9002 Landscape Research Project

A research project directed at furthering the body of knowledge relating to the art and science of landscape architecture selected by the student and approved by the academic staff of the school. The research project should be a synthesis of the knowledge and skills acquired during the course of study, and should further the student's knowledge or expertise in a specialized field of study. Emphasis will be placed on continued development of research skills in the areas of data collection, analysis, interpretation and presentation. The research project will be supervised by members of the academic staff of the University. (Old No. 37.102G)

LAND9213 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. (Old No. 37.161G)

LAND9010 Environmental Heritage 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. (Old No. 37.504G)

LAND9111 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. (Old No. 37.901G)

LAND9212 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. (Old No. 37,902G)

LAND9003 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. (Old No. 37.903G)

LAND9214 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. (Old No. 37.904G)

Graduate School of the Built Environment

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

GSBE0102 Contextual Studies

The scope and international context of conservation. History, concepts and philosophies of the discipline. Definition of conservation processes, including preservation, restoration, rehabilitation, reconstruction, alteration, repair, 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 co

uction; and as a planning, landscape and townscape consideration. The current legal framework. Government, semi-government and community conservation organizations and their roles. (Old No. 39.101G)

GSBE0202 Architectural History

S1

S2

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. (Old No. 39.102G)

GSBE0302 Conservation Management

Environmental psychology and conservation. Individual, group and community processes and responsibilities. Public policy and public opinion. The organization of conservation treatments and processes, projects, and procedures. Professional, contractual and legal roles and responsibilities. Evaluation of historic and non-historic old buildings and their sites. Feasibility and economic considerations. Revolving funds. Acts and ordinances. Labour and materials resources. Model management plans. Case studies. (Old No. 39.103G)

GSBE0402 Analysis and Documentation A S1

Interpretation of extant structures. Introduction to historical, industrial and structural archaeology. Research methodology. Comparative analysis, typologies and surveys. Case studies. (Old No. 39.104G)

GSBE0502 Analysis and Documentation B S2

Preparation of documentary studies: measurement, photography, reportage. Photogrammetry and its applications. (Old No. 39.105G)

GSBE0602 Conservation Technology A S1

The Integrity of old buildings and their environments, including planning, landscape and architectural considerations. Effects of acts and ordinances. **(Old No. 39.106G)**

GSBE0702 Conservation Technology B

Identification, understanding and diagnosis of deterioration in traditional structure, construction, decoration and building environments. Development of general techniques for preservation, restoration, reconstruction and adaptation. Comfort criteria and other functional considerations. (Old No. 39.107G)

GSBE0802 Conservation Technology C S1

Prerequisite: 39.107G or equivalent.

Policies and techniques appropriate to preservation, restoration, reconstruction and adaptation of heritage structures. Integration of new services and functions. Case studies. (Old No. 39.108G)

GSBE0902 Conservation Technology D S2

Prerequisite: 39.107G or equivalent.

Policies and techniques appropriate to adaptive reuse and other treatments of non-heritage structures. Integration of new services and functions. Case studies. (Old No. 39.109G)

GSBE1002 Graduate Project

An appropriate conservation topic from any apposite 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. (Old No. 39.110G)

GSBE0403 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. (Old No. 39.301G)

GSBE0503 Research Studies

Research viewed within a framework of priorities, policies, and interdependencies including case studies, resources, methodology and the preparation of research proposals. (Old No. 39.302G)

GSBE0603 Directed Studies

S1 T2

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. (Old No. 39.303G)

GSBE0101 Mechanical Shock and Vibration S1 L1T1 C2

Prerequisite: Nil.

Vibrating systems, strings, rods, beams, plates, shells; radiation characteristics of noise sources; random vibration; structures; fatigue, filters, isolators, attenuators, dampers; impedance. (Old No. 39.651G)

GSBE0601 Noise Control in Industry S1 L2T2 C4

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. (Old No. 39.652G)

GSBE0201 Acoustic Measuring Systems S1 L2 C2 and Electroacoustics

Prerequisite: Nil.

Transducers; microphones; amplifiers; loudspeakers; filters, recorders, pick-ups; noise generators; acoustic measuring instruments. Sound reinforcement systems; ambiophony; assisted resonance. Special requirements for translation, language laboratories. (Old No. 39.901G)

GSBE0701 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. (Old No. 39.902G)

GSBE1101 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 erxercises 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. (Old No. 39.908G)

GSBE0301 The Ear, Hearing and S1 L1T1 C2 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. (Old No. 39.993G)

GSBE0901 Graduate Project A

S1 C5

An individual research project on an approved topic in acoustics; preliminary report. (Old No. 39.994G)

GSBE0401 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. (Old No. 39.995G)

GSBE1001 Graduate Project B S2 C10

Prerequisite: 39.994G or equivalent.

An individual research project on an approved topic in acoustics; final report. (Old No. 39.996G)

GSBE0801 Auditorium Acoustics S1 L2T1 C3

Prerequisite: Nil.

Subjective and objective criteria for speech and music; speech intelligibility; characteristics of musical sources; reverberation theory, diffusion; steady-state and transient room response; design methods including graphic and model analysis; sound reflectors; sound absorbents. (Old No. 39.997G)

GSBE0501 Noise Control in Buildings S2 L2T2 C4

Prerequisite: Nil.

Airborne and impact sound transmission theory and measurement; vibration isolation; single, multiple-leaf and composite partitions; ventilation, plumbing and services noise control; criteria; regulations and standards. (Old No. 39.998G)

Department of Industrial Design

IDES5071 Industrial Design Studies

Prerequisite: Nil.

1. The objectives and methods of graduate study in industrial design: contemporary industrial design trends, the relationship between academic and practice objectives, the relationship 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. (Old No. 39.501G)

IDES6081 Graduate Project (MID)

F

E

Co-requisite: IDES5131

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. (Old No. 39.502G)

IDES5091 Design Media Communication

Prerequisite: Nil.

The major two and three dimensional media and computer techniques are analysed and demonstrated within the context of industrial design problem solving: orthographic techniques, the Australian Engineering Drawing Standard, graphic art processes, photography, current rendering and illustration techniques, modelling in automotive clay, plastic sheet and rigid foams, timbers and metals. The current state of computer aided design as well as its potential in design and the restructuring of engineering decision-making and drafting. Particular emphasis given to each method's role in problem analysis and communication at the concept, detail and final design stages. The social and physiological aspects of communicating design in industry are also examined. (Old No. 39.503G)

IDES5193 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. (Old No. 39.511G)

IDES6101 Design Theory

Prerequisite: IDES5071 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. (Old No. 39.512G)

IDES5111 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. (Old No. 39.513G)

IDES5124 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. (Old No. 39.521G)

IDES5131 Industrial Design

Co-requisite: IDES5071 or equivalent.

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. **(Old No. 39.522G)**

IDES5141 Industrial Design A

S2

S2

F

Co-requisite: IDES5071 or equivalent.

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. (Old No. 39.523G)

IDES5152 Manufacturing Technology S1

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. (Old No. 39.531G)

IDES6161 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. (Old No. 39.533G)

IDES6171 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. (Old No. 39.541G)

IDES6181 Graduate Project (MSc(IndDes))

Co-requisite:

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. (Old No. 39.543G)

S1

F

S1

Graduate Study

Conditions for the Award of Higher Degrees

Rules, regulations and conditions for the award of first degrees are set out in the appropriate Faculty Handbooks. For the list of undergraduate courses and degrees offered see Faculty (Undergraduate Study)

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.

| Title | Abbreviation | Calendar/Handbook | - Higher Degrees |
|-----------------------------------|--------------|-------------------------------|---------------------|
| Doctor of Science | DSc | Calendar | |
| Doctor of Letters | DLitt | Calendar | |
| Doctor of Laws | LLD | Calendar | |
| Doctor of Medicine | MD | Calendar Medicine | |
| Doctor of Philosophy | PhD | Calendar and all handbooks | |
| Master of Applied Science | MAppSc | Applied Science | |
| Master of Architectural Design | MArchDes | Architecture | |
| Master of Architecture | MArch | Architecture | |
| Master of Archives Administration | MArchivAdmin | Professional Studies | |
| Master of Arts | MA | Arts University College | |
| Master of Biomedical Engineering | MBiomedE | Engineering | |
| Master of Building | MBuild | Architecture | |
| Master of the Built Environment | MBEnv | Architecture | |

Higher Degrees

Architecture

| Higher Degrees (continued) | Title | Abbreviation | Calender/Handbook |
|-------------------------------|--|--------------------|--|
| (continued) | Master of the Built Environment (Building Conservation) | MBEnv | Architecture |
| | Master of Business Administration | MBA | AGSM |
| | Master of Chemistry | MChem | Sciences* |
| | Master of Cognitive Science | MCogSc | Arts |
| | Master of Commerce (Honours) | MCom(Hons) | Commerce & Economics |
| | Master of Commerce | MCom | Commerce & Economics |
| | Master of Community Health | MCH | Medicine |
| | Master of Education | MEd | Professional Studies |
| | Master of Educational Administration | MEdAdmin | Professional Studies |
| | Master of Engineering | ME | Applied Science Engineering University College |
| | Master of Engineering without supervision | ME | Applied Science Engineering |
| | Master of Engineering Science | MEngSc | Engineering Applied Science University College |
| | Master of Environmental Studies | MEnvStudies | Applied Science |
| | Master of Health Administration | MHA | Professional Studies |
| | Master of Health Personnel Education | MHPEd | Medicine |
| | Master of Health Planning | MHP | Professional Studies |
| | Master of Industrial Design | MID | Architecture |
| | Master of Landscape Architecture | MLArch | Architecture |
| | Master of Landscape Planning | MLP | Architecture |
| | Master of Laws | LLM | Law |
| | Master of Librarianship | MLib | Professional Studies |
| | Master of Management Economics | MMgtEc | University College |
| | Master of Mathematics | MMath | Sciences* |
| | Master of Music | MMus | Arts |
| | Master of Nursing Administration | MNA | Professional Studies |
| | Master of Optometry | MOptom | Sciences* |
| | Master of Paediatrics | MPaed | Medicine |
| | Master of Physics | MPhysics | Sciences* |
| | Master of Project Management | MPM | Architecture |
| | Master of Public Health | MPH | Medicine Professional Studies |
| | Master of Psychology (Applied) | MPsychol | Sciences § |
| | Master of Psychology (Clinical) | MPsychol | Science§ |
| | Master of Psychotherapy | MPsychotherapy | Medicine |
| | Master of Safety Science | MSafetySc | Engineering |
| | Master of Science | MSc | Applied Science Architecture Engineering Medicine Sciences*§ University College |
| | Master of Science without supervision | MSc | Applied Science Architecture |

Engineering

Graduate Study: Conditions for the Award of Higher Degrees

| Title | Abbreviation | Calender/Handbook | Higher Degrees (continued) |
|---|---|--|-------------------------------|
| Master of Science without supervision (continued) | MSc | Medicine Sciences*§ University College | (continued) |
| Master of Science (Acoustics) | MSc(Acoustics) | Architecture | |
| Master of Science (Industrial Design) | MSc(IndDes) | Architecture | |
| Master of Science and Society | MScSoc | Arts | |
| Master of Social Work | MSW | Professional Studies | |
| Master of Statistics | MStats | Sciences* | |
| Master of Surgery | MS | Medicine | |
| Master of Surveying | MSurv | Engineering | |
| Master of Surveying without supervision | MSurv | Engineering | |
| Master of Surveying Science | MSurvSc | Engineering | |
| Master of Town Planning | MTP | Architecture | |
| Master of Welfare Policy | MWP | Professional Studies | |
| Graduate Diploma | GradDip | Applied Science Architecture Engineering Sciences*§ | Graduate Diploma |
| | DipPaed | , Medicine | |
| | DipEd DipIM-ArchivAdmin DipIM-Lib | Professional Studies | |
| | DipFDA | Sciences* | |
| *Faculty of Science. | | | |

§Faculty of Biological and Behavioural Sciences.

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

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

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

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

3.(1)An application to enrol as a candidate for the degree shall be lodged with the Registrar at least one month prior to the date at which enrolment is to begin.

(2)In every case before making the offer of a place the Committee shall be satisfied that agreement has been reached between the School and the applicant on the topic area, supervision arrangements, provision of adequate facilities and any coursework to be prescribed and that these are in accordance with the provisions of the Bill of Rights for postgraduate research students.

(3)The candidate shall be enrolled either as a full-time or a part-time student.

(4)A full-time candidate will present the thesis for examination no earlier than three years and no later than five years from the date of enrolment and a part-time candidate will present the thesis for examination no earlier than four years and no later than six years from the date of enrolment, except with the approval of the Committee.

Higher Degrees Doctor of Philosophy (PhD)

Qualifications

Enrolment

•

| | (5)The candidate may undertake the research as an internal student i.e. at a campus, teaching hospital, or other research facility with which the University is associated, or as an external student not in attendance at the University except for periods as may be prescribed by the Committee. |
|-------------|---|
| | (6)An internal candidate will normally carry out the research on a campus or at a teaching or research facility of the University except that the Committee may permit a candidate to spend a period in the field, within another institution or elsewhere away from the University provided that the work can be supervised in a manner satisfactory to the Committee. In such instances the Committee shall be satisfied that the location and period of time away from the University are necessary to the research program. |
| Progression | (7)The research shall be supervised by a supervisor or supervisors or under other appropriate supervision arrangements approved by the Committee. Normally an external candidate within another organisation or institution will have a co-supervisor at that institution. |
| | 4.The progress of the candidate shall be considered by the Committee following report from the School in accordance with the procedures established within the School and previously noted by the Committee. |
| | (i)The research proposal will be reviewed as soon as feasible after enrolment. For a full-time student this will normally be during the first year of study, or immediately following a period of prescribed coursework. This review will focus on the viability of the research proposal. |
| Thesis | (ii)Progress in the course will be reviewed within twelve months of the first review. As a result of either review the Committee may cancel enrolment or take such other action as it considers appropriate. Thereafter, the progress of the candidate will be reviewed annually. |
| | 5.(1)On completing the program of study a candidate shall submit a thesis embodying the results of the investigation. |
| | (2)The candidate shall give in writing to the Registrar two months notice of intention to submit the thesis. |
| | (3)The thesis shall comply with the following requirements: |
| | (a)it must be an original and significant contribution to knowledge of the subject; |
| | (b)the greater proportion of the work described must have been completed subsequent to enrolment for the degree; |
| | (c)it must be written in English except that a candidate in the Faculty of Arts may be required by the Committee to write a thesis in an appropriate foreign language; |
| | (d)it must reach a satisfactory standard of expression and presentation; |
| | (e)it must consist of an account of the candidate's own research but in special cases work done conjointly with other persons may be accepted provided the Committee is satisfied about the extent of the candidate's part in the joint research. |
| | (4)The candidate may not submit as the main content of the thesis any work or material which has previously been submitted for a university degree or other similar award but may submit any work previously published whether or not such work is related to the thesis. |
| | (5)Four copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of theses for higher degrees. |
| | (6)It shall be understood that the University retains the four copies of the thesis submitted for examination and is free to allow the thesis to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the thesis in whole or in part, in photostat or microfilm or other copying medium. |
| Examination | 6.(1)There shall be not fewer than three examiners of the thesis, appointed by 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 thesis merits the award of the degree. |
| | (b)The thesis merits the award of the degree subject to minor corrections as listed being made to the satisfaction of the head of school. |
| | (c)The thesis requires further work on matters detailed in my report. Should performance in this further work be to the satisfaction of the higher degree Committee, the thesis would merit the award of the degree. |
| | (d)The thesis does not merit the award of the degree in its present form and further work as described in my report is required. The revised thesis should be subject to re-examination. |

(e)The thesis does not merit the award of the degree and does not demonstrate that resubmission would be likely to achieve that merit.

(3)If the performance at the further work 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 work, 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.

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

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

2. (1) A candidate for the degree shall:

(a)have been awarded the degree of Bachelor of Architecture with Honours from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Architecture (hereinafter referred to as the Committee), and

(b) have had at least one year's professional practice subsequent to graduation of a kind acceptable to the Committee.

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

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

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

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

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

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

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

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.

*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.

Fees

Master of Architectural Design (MArchDes) Qualifications

Enrolment and Progression

Master of Architecture (MArch), Master of Building (MBuilding). Master of the Built Environment (MBEnv), Master of Landscape Architecture (MLArch) and Master of Town Planning (MTP)

Qualifications2. (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

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

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

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

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

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

(a) full-time attendance at the University;

(b) part-time attendance at the University;

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

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

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

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

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

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

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

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

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

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

(5) Three copies of the thesis shall be presented in a form which complies with the requirements of the University for the preparation and submission of higher degree 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 in not practicable.

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

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

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

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

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

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

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

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

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

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

2. (1) A candidate for the 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).

Qualifications

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

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

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

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

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

(4) No candidate shall be awarded the degree at Pass level until the lapse of four academic sessions from the date of enrolment for a candidate undertaking the program at Pass level and eight sessions for a candidate undertaking the program at Honours level. In special cases an extension of these times may be granted by the Committee.

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

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

(3) The candidate shall given in writing to the 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.

Fees

Master of Project Management (MPM)

Enrolment and Progression

Project Report

| Examination | (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) 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 |
| | (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 csandidate be awarded the degree at Pass or Honours level If it is decided that the project report is unsatisfactory the Committee shall determine whether or not the candidate may resubmit it after a further period of study and/or research, |
| Fees | 6. A candidate shall pay such fees as may be determined from time to time by the Council. |
| Master of the Built Environment (Building Conservation)(MBenv), Master of Industrial Design (MID), Master of Science (Acoustics) (MSc(Acoustics), and Master of Science (Industrial Design) (MSc(IndDes) | 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. |
| 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 Higher Degree Committee of the Faculty of Architecture (hereinafter referred to as the Committee). |
| | (2) In exceptional cases an applicant who submits evidence of such academic and/or professional qualifications as may be approved by the Committee may be permitted to enrol for the degree. |
| | ((3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as the Committee may prescribe, before permitting enrolment. |
| Enrolment and Progression | 3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least two calendar months before the commencement of the session in which enrolment is to begin. |
| | (2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed. |
| | (3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the Committee may cancel enrolment or take such other action as it considers appropriate. |
| | (4) No candidate shall be awarded the degree until the lapse of two academic sessions from the date of enrolment in the case of a full-time candidate or four sessions in the case of a part-time candidate. The maximum period of candidature shall be four academic sessions from the date |

of enrolment for a full-time candidate and eight sessions for a part-time candidate. In special cases an extension of these times may be granted by the Committee.

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

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

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

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

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

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

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

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

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

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

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

(a) full-time attendance at the University;

(b) part-time attendance at the University;

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

Project Report

Examination

Fees

Master of Engineering (ME) and Master of Science (MSc)!

Qualifications

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

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

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

(7) No candidate shall be granted the degree until the lapse of three academic sessions in the case of a full-time candidate or four academic sessions in the case of a part-time 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

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

Graduate Study: Conditions for the Award of Higher Degrees

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 apropriate faculty (hereinafter referred to as the Committee) to a candidate who has demonstrated ability to undertake research by the submission of a thesis embodying the results of an original investigation.

2. A candidate for the degree shall have been awarded an appropriate degree of Bachelor from the University of New South Wales with at least three years relevant standing in the case of Honours graduates and four years relevant standing in the case of Pass graduates, and at a level acceptable to the Committee.

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

4. (1) A candidate shall submit a thesis embodying the results of the investigation.

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

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

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

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

(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 examiners shall submit to the Committee a concise report on the thesis and shall recommend to the Committee that:

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

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

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

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

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

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

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

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

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

Enrolment and Progression

Thesis

Examination

Fees

| Master of Landscape Planning (MLP) Qualifications | The degree of Master of Landscape Planning by formal course work may be awarded by the Council to a candidate who has satisfactorily completed a program of advanced study. (1) A candidate for the degrees shall have been awarded an appropriate degree of Bachelor |
|---|---|
| Goannoaions | from the University of New South Wales or a qualification considered equivalent from another university or tertiary institution at a level acceptable to the Higher Degree Committee of the Faculty of Architecture (hereinafter referred to as the Committee). |
| | (2) In exceptional cases of an applicant who submits evidence of such other academic and professional qualifications as may be approved by the Committee may be permitted to enrol for the degree. |
| | (3) If the Committee is not satisfied with the qualifications submitted by an applicant the Committee may require the applicant to undergo such assessment or carry out such work as it may prescribe, before permitting enrolment. |
| Enrolment and Progression | 3. (1) An application to enrol as a candidate for the degree shall be made on the prescribed form which shall be lodged with the Registrar at least two calendar months before the commencement of the session in which enrolment is to begin. |
| | (2) A candidate for the degree shall be required to undertake such formal subjects and pass such assessment as prescribed. |
| | (3) The progress of a candidate shall be reviewed at least once annually by the Committee and as a result of its review the committee may cancel enrolment or take such other action as it considers appropriate. |
| | (4) No candidate shall be awarded the degree until the lapse of three academic sessions from the date of enrolment. |
| | 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. |
| Project Report | (3) The candidate shall give in writing to the Registrar two months notice of intention to submit a report on the project. |
| | (4) Three copies of the project report shall be presented in a form which complies with the requirements of the University for the preparation and submission of project reports for higher degrees. |
| | (5) It shall be understood that the University retains the three copies of the project report submitted for examination and is free to allow the project report to be consulted or borrowed. Subject to the provisions of the Copyright Act, 1968, the University may issue the project report in whole or in part, in microfilm or other copying medium raduate 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 csandidate 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. A Graduate Diploma may be awarded by the concil to a candidate who has satisfactorily completed a program of advanced study.

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

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

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

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

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

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

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

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

Graduate Diploma Graduate Diploma (Grad Dip)

Qualifications

Enrolment and Progression

Fees

Architecture

Scholarships and Prizes

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

Scholarships

Undergraduate Scholarships

Listed below is an outline only of a number of scholarships available to students. Full information may be obtained from the Student Centre located on the Lower Ground Floor of the Chancellery.

Unless otherwise indicated in footnotes, applications for the following scholarships should be made to the and Deputy Principal Registrar by 14 January each year. Please note that not all of these awards are available every year.

| Donor | Value | Year/s of Tenure | Conditions |
|--------------------------|--|---|---|
| General | | | |
| Bursary Endowment Board* | \$200 pa | Minimum period of approved degree/ combined degree course | Merit in HSC and total family income not exceeding \$6000 |
| Sam Cracknell Mernorial | Up to \$3000 pa payable in fortnightly instalments | 1 year | 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. |
| Girls Realm Guild | Up to \$1500 pa | 1 year renewable for the duration of the course subject to satisfactory progress and continued demonstration of need | 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. |

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

| Undergraduate | Scholarships | (continued) |
|---------------|--------------|-------------|
|---------------|--------------|-------------|

| Donor | Value | Year/s of Tenure | Conditions |
|--------------------------|-------------------------|---|--|
| General (continued) | | | |
| W.S. and L.B. Robinson** | Up to \$4 200 pa | 1 year renewable for the duration of the course subject to satisfactory progress | Available only to students who have com- pleted their schooling in Broken Hill or whose parents reside in Broken Hill; for a course related to the mining industry. In- cludes courses in mining engineering, geology, electrical and mechanical en- gineering, metallurgical process engineering, chemical engineering and science. |
| Alumni Association | Up to \$1500 pa | 1 year with the possibility of renewat | 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 resi- dents of Australia or overseas students. |

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.

The following publications may also be of assistance: **1**. Awards for Postgraduate Study in Australia and Awards for Postgraduate Study Overseas, published by the Graduate Careers Council of Australia. PO Box 28, Parkville, Victoria 3052;* **2**. Study Abroad, published by UNESCO;* **3**. Scholarships Guide for Commonwealth Postgraduate Students, published by the Association of Commonwealth Universities.*

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.

| Donor | Value | Year/s of Tenure | Conditions |
|--|--|--|--|
| General | | | |
| University Postgraduate Research Scholarships | Living allowance of \$13,504 pa. Other allowances may also be paid. Tax free. | 1-2 years for a Masters and 3-4 years for a PhD degree | Applicants must be honours graduates or equivalent. Applications to Dean of relevant Faculty. |
| Commonwealth Postgraduate Research Awards | \$13,504 to \$17,427 | | Applicants must be honours graduates or equivalent or scholars who will graduate with honours in current academic year, and who are domiciled in Australia. Applica- tions to Registrar by 31 October. |

| Donor | Value | Year/s of Tenure | Conditions |
|---|--|--|--|
| General (continued) | | | |
| Commonwealth Postgraduate Course Awards | Living allowance of \$10,903 pa. Other allowances may also be paid. Tax free. | 1-2 years; minimum duration of course | Applicants must be graduates or scholars who will graduate in current academic year, and who have not previously held a Commonwealth Post-graduate Award. Ap plicants must be domiciled in Australia Preference is given to applicants with employment experience. Applications to the Registrar by 28 September. |
| Overseas Postgraduate Research Scholarships | Tuition fees only | 2 years for a Masters and 3 years for a PhD | Eligibility is confined to postgraduate re- search studentgs who are citizens o overseas countries excluding citizens o countries which are covered by the Equity and Merit Scholarship Scheme (EMSS) Application to the Registrar by 28 Septem ber |
| IDP-Korea/Taiwan Research Scholarships | Tuition fees and a stipend | 2 years for a Masters and 3 years for a PhD | Eligibility is confined to postgraduate re- search students who are citizens of Kores or Taiwan. Application to the Registrar by 31 July. |
| Australian American Educational Foundation Fulbright Award | Travel expenses and \$A2000 as establishment allowance. | 1 year, renewable | Applicants must be graduates who are domiciled in Australia and wish to under- take research or study for a higher degree in America. Applications close 30 Septem ber with The Secretary, DEET, AAEF Trave Grants, PO Box 826, Woden ACT 2606. |
| Australian Federation of University Women | Amount varies, depending on award | Up to 1 year | Applicants must be female graduates who are members of the Australian Federation of University Women |
| Commonwealth Scholarship and Fellowship Plan | Varies for each country. Generally covers travel, living, tuition fees, books and equipment, approved medical expenses. Marriage allowance may be pay | Usually 2 years, sometimes 3 vable. | Applicants must be graduates who are Australian citizens and who are not older than 35 years of age. Tenable in Common- wealth countries other than Australia. Applications close with the Registrar in September or October each year. |
| The English-Speaking Union (NSW Branch) | \$7000 | 1 year | Applicants must be residents of NSW or ACT. Awarded to young graduates to fur- ther their studies outside Australia Applications close mid-April with The Secretary, Ground Floor, Sydney School of Arts, 275c Pitt Street, Sydney NSW 2000. |
| Frank Knox Memorial Fellowships tenable at Harvard University | Stipend of \$US7000 pa plus tuition fees | 1, sometimes 2 years | Applicants must be British subjects and Australian citizens, who are graduates of near graduates of an Australian university Applications close with the Academic Registrar mid October. |
| Robert Gordon Menzies Scholarship to Harvard | Up to \$US 15,000 | 1 year | Tenable at Harvard University. Applicants must be Australian citizens and graduates of an Australian tertiary institution. Applica- tions close 31 December with the Registrar, A.N.U., GPO Box 4, Canberra ACT 2601 |

| Donor | Value | Year/s of Tenure | Conditions |
|---|---|--|---|
| General (continued) | | | |
| Gowrie Scholarship Trust Fund | \$6000 pa. Under. special circumstances this may be increased | 2 years | Applicants must be members of the Force or children of members of the Forces wh were on active service during the 1939-4 War. Applications close with the Academi Registrar by 31 October. |
| Harkness Fellowships of the Commonwealth Fund of New York | Living and travel allowances, tuition and research expense health insurance, book and equipment and ot allowances for travel a study in the USA | her | Candidates must be Australian citizen and 1. Either members of the Common wealth or a State Public Service of semi-government Authority. 2. Either staf or graduate students at an Australian university. 3. Individuals recommended for nomination by the Local Correspondents The candidate will usually have an honour degree or equivalent, or an outstanding record of achievement, and be not more than 36 years of age. Applications close 21 August with the Academic Registrar. Form available from Mr J Larkin, Bureau of Agriculture and Resource Economics GPO Box 1563, Canberra ACT 2601. |
| The Packer, Shell and Barclays Scholarships to Cambridge University | Living and travel allowances, tuition expenses. | 1-3 years | Applicants must be Australian citizens whe are honours graduates or equivalent, and under 26 years of age. Applications close 15 October with The Secretary, Cambridge Commonwealth Trust, PO Box 252 Cambridge CB2 ITZ, England. |
| The Rhodes Scholarship to Oxford University | Approximately £4862 stg pa | 2 years, may be extended for a third year. | Unmarried Australian citizens aged be tween 19 and 25 who have an honour degree or equivalent. Applications close is August each year with The Secretary University of Sydney, NSW 2006. |
| Architecture | <u> </u> | | |
| The Associated Hardware Manufacturers Scholarship | \$1500 pa or such other amount as the Dean may determine | 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. | Applicants shall have qualified for the de gree 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 in stitution overseas or in Australia Applications to the Registrar by 31 October |
| The Lindsay Robertson Memorial Travel Award | A maximum of \$1500 | | Candidates should be Landscape Ar chitecture graduates of the University of New South Wales. The award is to under take full-time graduate study or research in Landscape Architecture at an approved institution overseas or in Australia. Applica tions close 30 May with the Registrar. |
| The Master Builders' Association of NSW | \$500 | 1 year | Applicants must be graduates who have enrolled in the Master of Science Building degree course. |

Graduate Scholarships (continued)

| Donor | Value | Year/s of Tenure | Conditions |
|---------------------------------|-----------|------------------|--|
| Architecture (continued) | | | |
| Wightman University Scholarship | \$2000 pa | 1 year | Awarded to an Architecture student proceeding to graduate study. Applications close 30 September with the Registrar. |

,

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.

| Donor/Name of Prize | Value \$ | Awarded for |
|---|---|---|
| General | | |
| The Sydney Technical College Union Award | \$400.00 and Bronze Medal | Leadership in student affairs combined with marked academic proficiency by a graduand. |
| The University of New South Wales Alumni Association Prize | Statuette | Achievement for community benefit by a student in the final or graduating year. |
| School of Architecture | | |
| The Board of Architects of NSW Prize | \$300.00 | Outstanding graduand in the School of Architecture |
| The Connell Wagner 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: ARCH5620 Conceptual Structural Design ARCH5621 Advanced Structural Design ARCH5622 Lightweight Structural Design |
| The Eric Daniels Prize in Residential Design | \$500.00 | The best performance in design for Residential Accommodation by a student in the Bachelor of Architecture course. |
| The Frank Fox Memorial Prize | \$150.00 | The best performance in Historical Research C by a student in the Bachelor of Architecture course. |
| The Frank W. Peplow Prize | \$100.00 | The best performance in Church Architecture or Design by a student in the Bachelor of Architecture course. |
| The James Hardie & Coy. Pty Ltd Prize | \$150.00 | Outstanding performance in Year 1 of the Bachelor of Science (Design Studies)/ Bachelor of Architecture |
| The Morton Herman Memorial Prize | \$100.00 | The best performance in 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 BLDG4114 Building Science 4 (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. |

Undergraduate University Prizes

| Donor/Name of Prize | Value \$ | Awarded for |
|---|-----------|--|
| School of Building (continued) | | |
| 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 | \$300.00 | The best performance in LAND2270 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 Planning Prize | \$500.00 | 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

۲

.

\$ 4 The following table summarizes the graduate prizes awarded by the University.

| • | Donor/name of Prize | Value \$ | Awarded for |
|---|---|------------|---|
| | School of Building | | |
| • | The Alex Rigby Prize | \$250.00 | The best overall performance in the Master of Building Management Course. |
| | The Master Builders Association of New South Wales Prize | \$1,000.00 | The best performance in the Master of Construction Management course. |
| | The T.W. Crow Associates Prize | \$300.00 | The best performance by a student in Year 2 of the Master of Project Management course. |

The University of New South Wales Kensington Campus

Theatres

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

Buildings

Affiliated Residential Colleges New (Anglican) L6 Shalom (Jewish) N9 Warrane M7 Applied Science F10 Architecture H14 Arts (Morven Brown) C20 Banks F22 Barker Street Gatehouse N11 Basser College C18 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 014 Kensington Colleges C17 (Office) Basser C18 Goldstein D16 Philip Baxter D14 ٠

Link B6 Maintenance Workshop B13 Materials Science and Engineering E8 Mathews F23 Mechanical and Industrial Engineering J17 Medicine (Administration) 827 Menzies Library E21 Morven Brown (Arts) C20 New College (Anglican) L6 Newton J12 NIDA D2 Parking Station H25 Philip Baxter College D14 Robert Heffron (Chemistry) E12 Sam Cracknell Pavilion H8 Shalom College (Jewish) N9 Sir Robert Webster (Textile Technology) G14 Wool & Animal Sciences G14 Squash Courts 87 Swimming Pool B4 Unisearch House L5 University Regiment J2 University Union (Roundhouse) - Stage | E6 University Union (Blockhouse) - Stage II 66 University Union (Squarehouse) - Stage III E4 Wallace Wurth School of Medicine C27 Warrane College M7

General

Accommodation (off-campus) F15 Academic Staff Office C22 Accounting F20 Admissions C22 Adviser for Prospective Students C22 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 Buildina H14 Careers and Employment F15 Cashier's Office C22 Chaplains E15 Chemical Engineering and Industrial Chemistry F10 Chemistry E12 Child Care Centres N8, O14 Civil Engineering H20 Commerce and Economics (Faculty Office) F20 Community Medicine D26 Computing Services Department F21, D26 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 88 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 Services Management C22 History C20 Industrial Arts H14 Industrial Design G15 Industrial Relations and Organizational Behaviour F20 Information Systems F20 International Student Centre F16 IPACE F23 Kanga's House 014 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 4 2

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) 827 Microbiology D26 **Mineral Processing and Extractive** Metallurov E8 Mining Engineering K15 Music B11 National Institute of Dramatic Art D2 News Service 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 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 University Health Services E15 Student Records C22 Student Services F15 Students' Union E4 and C21 Surveying K17 Professional Development 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 & Animal Sciences G14



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.