

Year  
1995

Faculty of Technology, Sydney • Design, Architecture and Building • Faculty Handbook

1995

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# DAB

## Design, Architecture and Building Faculty Handbook 1995



# Design, Architecture and Building Faculty Handbook **1995**

The University attempts to ensure that the information contained in the handbook is correct as at 4 November 1994. The University reserves the right to vary any matter described in the handbook at any time without notice.



**Equal opportunity**

It is University policy to provide equal opportunity for all, regardless of race, sex, marital status, physical ability, sexual preference, age, political conviction or religious belief. The University also has an ethnic affairs policy to ensure that the University community is sensitive to the multicultural nature of Australian society and the cultural diversity within the University.

**Free speech**

The University supports the right to freedom of speech and the rights of its members to contribute to the diversity of views presented in our society.

**Non-discriminatory language**

UTS has adopted the use of non-discriminatory language as a key strategy in providing equal opportunity for all staff and students. Guidelines for the use of non-discriminatory language have been developed and all members of the University community are encouraged to use them.

**Editorial and production:**

Corporate Responsibilities Unit  
University Secretary's Division

**Design:**

UTS News and Design Services

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## UNIVERSITY OF TECHNOLOGY, SYDNEY ADDRESSES AND TELEPHONE NUMBERS

### POSTAL ADDRESS

PO Box 123  
Broadway  
NSW 2007 Australia

Telephone – all campuses except School  
of Legal Practice: (02) 330 1990

International: +61 2 330 1990

Fax: (02) 330 1551

Telex: AA 75004

### STREET ADDRESSES

#### City campus

- Broadway  
No. 1 Broadway, Ultimo  
702–730 Harris Street, Ultimo
- Haymarket  
Corner Quay Street and Ultimo  
Road, Haymarket, Sydney
- Blackfriars  
Blackfriars Street, Chippendale
- Smail Street  
3 Smail Street, Ultimo
- Wembley House  
839–847 George Street, Sydney
- 645 Harris Street, Ultimo
- Bulga Ngurra, 23–27 Mountain Street  
Ultimo
- 82–84 Ivy Street, Chippendale

#### Kuring-gai campus

Eton Road  
Lindfield  
(PO Box 222, Lindfield NSW 2070)

#### St Leonards campus

- Dunbar Building  
Corner Pacific Highway and Westbourne  
Street, Gore Hill
- Clinical Studies, Centenary Lecture  
Theatre and West Wing  
Reserve Road, Royal North Shore  
Hospital
- Gore Hill Research Laboratories  
Royal North Shore Hospital
- School of Legal Practice (College of Law)  
Corner Chandos and Christie Streets  
St Leonards  
Telephone: (02) 965 7000

#### Yarrawood Conference and Research Centre

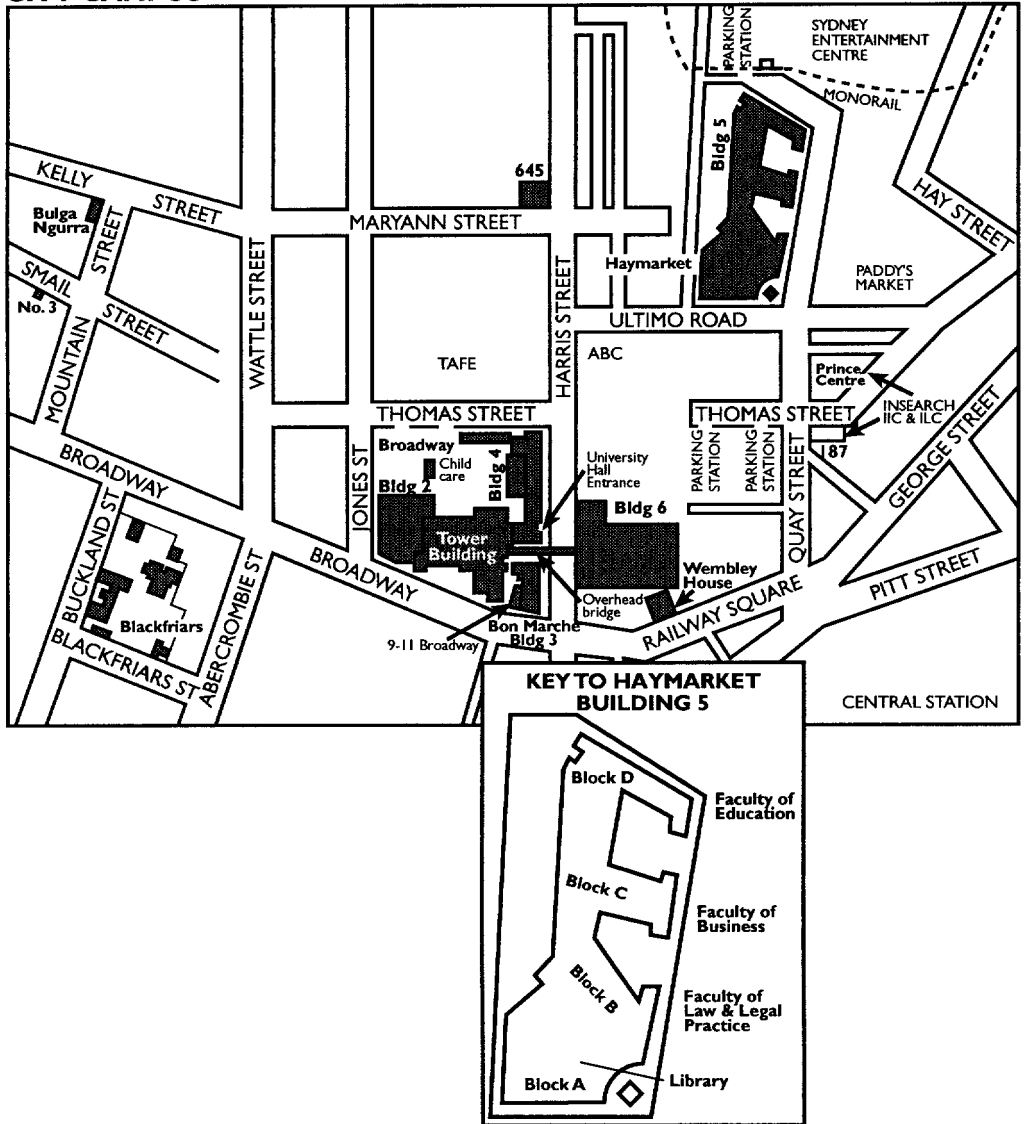
Hawkesbury Road  
Yarramundi 2753

#### Stroud

Lot AFP 161894  
The Bucketts Way  
Booral 2425

## CAMPUS MAPS

### CITY CAMPUS



#### City campus

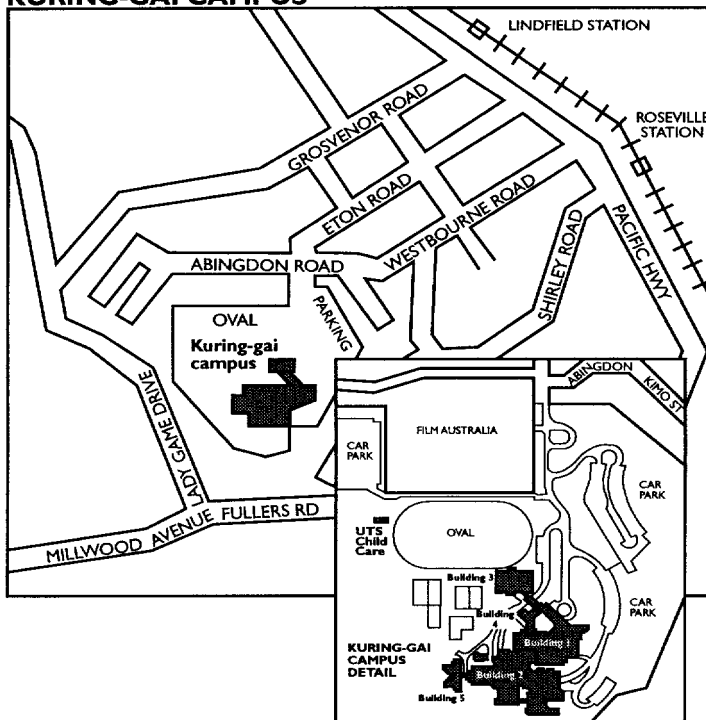
- Broadway  
No.1 Broadway, Ultimo  
702–730 Harris Street, Ultimo
- Haymarket  
Corner Quay Street and Ultimo Road  
Haymarket, Sydney
- Smail Street  
3 Smail Street, Ultimo
- Wembley House  
839–847 George Street  
Sydney
- 645 Harris Street, Ultimo
- Bulga Ngurra, 23–27 Mountain Street  
Ultimo
- 82–84 Ivy Street, Chippendale

## CAMPUS MAPS

### Kuring-gai campus

Eton Road  
Lindfield

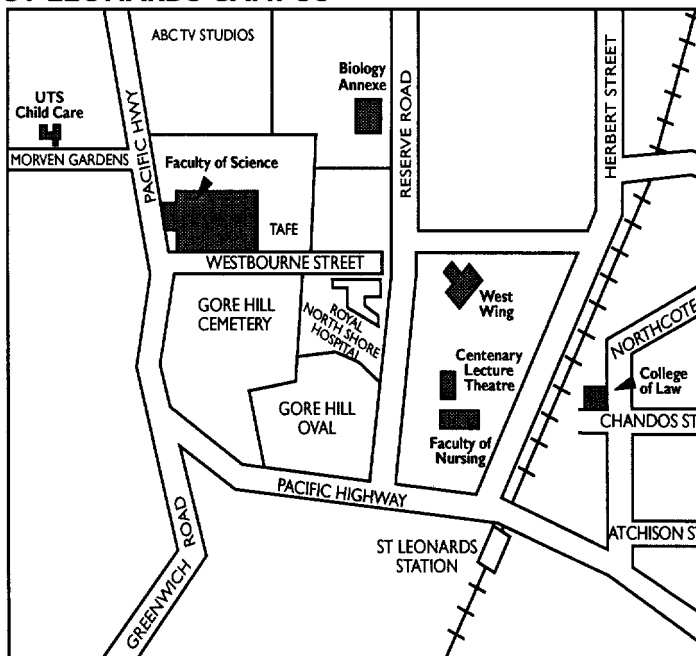
#### KURING-GAI CAMPUS



### St Leonards campus

- School of Biological and Biomedical Sciences  
Dunbar Building  
Corner Pacific Highway and Westbourne Street  
Gore Hill
- Clinical Studies, Centenary Lecture Theatre and West Wing  
Reserve Road, Royal North Shore Hospital
- Gore Hill Research Laboratories  
Royal North Shore Hospital
- School of Legal Practice (College of Law)  
Corner Chandos and Christie Streets  
St Leonards

#### ST LEONARDS CAMPUS



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## PREFACE

This handbook is one of a suite of twelve publications comprising the *University Calendar*, the *Student Information Guide* and ten handbooks: Business; Design, Architecture and Building; Education; Engineering; Humanities and Social Sciences; International Studies; Law and Legal Practice; Mathematical and Computing Sciences; Nursing; and Science. Each handbook provides general information about the faculty as well as detailed information on the courses and subjects offered.

The *Calendar* contains the University By-law, which all students should read. It also contains a list of the University's courses, giving the name, abbreviation and title as indicated on the testamur. Copies of the *Calendar* are held in the University Library and in faculty offices, and may be purchased at the Co-op Bookshop.

Copies of the *Student Information Guide* are provided free to students at enrolment. You should make sure that you read the student rules published in the guide. Information on the rights and responsibilities of students and on the services and facilities available is also given. The guide will assist you in your dealings with the University's administration and tell you whom to contact if you have a problem or need advice. Other publications providing information of a general nature are the *UAC Guide*, and the *UTS Undergraduate and Postgraduate Studies Guides*, all of which are available from the *UTS Information Service*.

For further information not provided in any of the publications mentioned e.g. additional information on courses, methods of assessment and book lists, you should contact the *UTS Information Service* or your Faculty office. If in doubt, don't hesitate to ask.

We hope you will enjoy your time as a student at UTS and wish you well in your studies.

## MESSAGE FROM THE DEAN

On Monday, July 18, 1994 the Faculty moved into its new building in Harris Street, Ultimo, and Spring semester classes commenced successfully the following week. Design vacated its premises in Balmain, which it had occupied since its inception as part of the Sydney College of the Arts in 1975, and joined Architecture and Building Studies in the one location for the first time. The new Faculty building has provided improved accommodation for students and staff, workshops and laboratories with advanced equipment and facilities, and public spaces including two large lecture theatres and an exhibition space.

A new Faculty structure, proposed for introduction in January 1995, builds on the opportunities provided by the new building through a reduction in tiers of management and increased interdisciplinary activity. The 1995–1997 Faculty Strategic Plan reinforces the vision and direction for the Faculty in the areas of quality and focus in teaching, research, national disciplinary leadership, and internationalisation. The Faculty has extended its links with academic institutions and professional groups in Asia to encompass China, where the Heads of Architecture and Building Studies were invited to lead seminars associated with their disciplines in cooperation with Chinese universities.

The research profile of the Faculty has been advanced significantly with the awarding of competitive grants for research into the Australian Building Cost Data Base, the changing composition and structure of urban development, re-structuring and employment, inner-city gentrification, and the impact of immigration on construction services. The Faculty has also prepared a strong application for a Cooperative Research Centre in the construction field.

A UTS submission organised by the Faculty Computing Unit for the International Apple Interface Design Competition was awarded first place in the Interactive category after presentations by the finalists in New York. Other prestigious awards and prizes were also won by Faculty students and graduates. Damian Barker was awarded the RAIA Student Medal for 1994. Architecture students Craig Taylor and Wendy Evans took out the Best Produce Display Competition at the Royal Easter Show. Therese Cerneaz, a fourth-year Fashion and Textile student, was a finalist in the Student Designer of the Year section of the Australian Fashion Awards. The winners and all those receiving special commendations in the Kirribilli Urban Design Competition were students from the School of Architecture. Recent Interior Design graduate, Alesha Glennan, won the prestigious HPM Award for Excellence in Design. Professor Neville Quarry was awarded the RAIA Gold Medal for his outstanding contribution to architectural education.

Geoffrey Caban

Dean

Faculty of Design, Architecture and Building

## FACULTY MISSION STATEMENT

The Faculty's mission is to provide an environment which encourages a high sense of purpose, superior performance and a vision for national leadership in the areas of design, construction and property education. The Faculty aims to provide opportunities for education, training and research in accordance with international standards of best practice and management.

The Faculty aims to fulfil its purpose in the following manner:

1. To provide undergraduate and postgraduate courses that both reflect and progress relevant professional disciplines.
2. By way of cooperative education, to enhance the integration of educational programs with professional, industrial, commercial and societal activities.
3. To focus and promote a contextual awareness in government and society in those areas of Faculty interest.
4. To encourage staff and student research that will advance the Faculty's purpose.
5. To encourage Faculty and staff consulting at an appropriate level that will provide a sharing of Faculty expertise and that will strengthen and develop teaching programs.
6. To pursue strategies that will reinforce intra-Faculty cooperation in research and teaching and that will promote cooperative ventures externally.
7. To promote policies that will enhance the quality of teaching, technical and administrative activity and that will provide for staff development.
8. To maintain and promote programs in relevant areas of continuing education.

## PRINCIPAL DATES FOR 1995 <sup>1</sup>

### AUTUMN SEMESTER

#### January

- 3 Enrolment day for Summer schools
- 4 School of Legal Practice enrolment day at St Leonards campus
- 9 Release of HSC results
- 13 Formal supplementary examinations for 1994 Spring semester students
- 17 Closing date for changes of preference to the Universities Admissions Centre (UAC) from 1994 NSW HSC applicants (by 4.30 p.m.)
- 19–31 Enrolment of postgraduate students, continuing undergraduate students and new direct entry students at City campus
- 26 Australia Day – public holiday
- 27 Public school holidays end

#### February

- 1–6 Enrolment of new undergraduate (UAC) students at City campus
- 7–17 Enrolment of postgraduate students, continuing undergraduate students and new direct entry students at City campus
- 27 Classes begin

#### March

- 10 Last day to enrol in a course or add subjects  
Last day to change to 'pay now/up-front' HECS payment
- 24 Last day to apply for leave of absence without incurring student fees/charges

- 31 HECS Census Date  
Last day to withdraw from a subject without financial penalty

#### April

- 7 Last day to withdraw from a course or subject without academic penalty <sup>2</sup>
- 14 Public school holidays begin  
Good Friday
- 17 Easter Monday
- 18–21 Vice-Chancellors' Week (non-teaching)
- 19 Graduation period begins
- 21 Public school holidays end  
Provisional examination timetable available
- 25 Anzac Day
- 28 Last day to apply to graduate in Spring semester 1995

#### May

- 5 Graduation period ends
- 12 Examination Masters due
- 26 Final examination timetable available
- 31 Closing date for undergraduate and postgraduate applications for Spring semester

#### June

- 12 Queen's Birthday – public holiday
- 13–29 Formal examination period
- 30 Autumn semester ends

<sup>1</sup> Information is correct as at 15 November 1994. The University reserves the right to vary any information described in Principal Dates for 1995 without notice.

<sup>2</sup> HECS/Postgraduate course fees will apply after the HECS Census Date.

## SPRING SEMESTER

### July

- 3 Public school holidays begin
- 3–7 Vice-Chancellors' Week (non-teaching)
- 10–14 Formal alternative examination period for Autumn semester students
- 14 Public school holidays end
- 21 Release of Autumn semester examination results
- 24 Formal supplementary examinations for Autumn semester students
- 24–28 Confirmation of Spring semester programs
- 25–26 Enrolment of new and readmitted students and students returning from leave/concurrent study
- 31 Classes begin

### August

- 1 Applications available for undergraduate and postgraduate courses
- 4 Last day to withdraw from full year subjects without academic penalty <sup>2</sup>
- 11 Last day to enrol in a course or add subjects  
Last day to change to 'pay now/up-front' HECS payment
- 25 Last day to apply for leave of absence without incurring student fees/charges (Spring enrolments only)
- 31 HECS Census Date  
Last day to withdraw from a subject without financial penalty  
Last day to apply to graduate in Autumn semester 1996

### September

- 8 Last day to withdraw from a course or subject without academic penalty <sup>2</sup>

- 22 Provisional timetable available
- 25 Public school holidays begin  
Graduation period begins
- 25–29 Vice-Chancellors' Week (non-teaching)
- 29 Closing date for undergraduate applications via UAC (without late fee)  
Closing date for inpUTS Special Admission Scheme applications  
Graduation period ends  
Closing date for postgraduate applications (*to be confirmed*)

### October

- 2 Labour Day – public holiday
- 6 Public school holidays end
- 13 Examination Masters due
- 27 Final examination timetable available
- 31 Closing date for postgraduate research and course award applications  
Closing date for undergraduate applications via UAC (with late fee)  
Closing date for undergraduate applications direct to UTS (without late fee)

### November

- 13–30 Formal examination period

### December

- 1 Spring semester ends
- 11–15 Formal alternative examination period for Spring semester students
- 18 Public school holidays begin
- 22 Release of Spring semester examination results

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<sup>2</sup> HECS/Postgraduate course fees will apply after the HECS Census Date.

## COURSES OFFERED BY THE FACULTY

### DESIGN

- Bachelor of Design with major in:
- DF01 Fashion and Textile Design
  - DD01 Industrial Design
  - DT01 Interior Design
  - DV01 Visual Communication
  - D059 Graduate Certificate in Design and Technology
  - D052 Graduate Diploma in Design
  - D051 Master of Design (by coursework)

### ARCHITECTURE

- AA02 Bachelor of Architecture
- AA53 Master of the Built Environment (by coursework)

### BUILDING STUDIES

- AB03 Bachelor of Building in Construction Management
- AB04 Bachelor of Building in Construction Economics
- AB06 Bachelor of Applied Science in Land Economics
- AB52 Graduate Diploma in Urban Estate Management
- AB57 Graduate Diploma in Building Surveying and Assessment
- AB55 Graduate Diploma in Planning
- AB56 Master of Planning (by coursework)
- AB53 Master of Project Management (by coursework)

### RESEARCH

- D058 Master of Design (by thesis)
- AA51 Master of Architecture (by thesis)
- AB51 Master of Applied Science (by thesis)
- AA54 Doctor of Architecture (by thesis)
- D057 Doctor of Philosophy in Design
- AA52 Doctor of Philosophy in Architecture
- AB54 Doctor of Philosophy in Building

## PROGRAMS IN DESIGN

### UNDERGRADUATE COURSES

#### Bachelor of Design

In 1991 a new curriculum for the Bachelor of Design was introduced, based on a problem-solving approach and self-directed learning. All students undertake a common first semester (Design 1) and are thus introduced to each of the four major areas of design: Visual Communications, Fashion and Textiles, Interior Design and Industrial Design. The rationale behind this approach is based upon (1) the sharing of a common design process; (2) common knowledge and skills; (3) common social context within which designers operate; and (4) the desirability for designers in each area to establish personal and professional links with those in adjacent areas. The course is delivered by way of studios, lectures and workshops.

The second- and third-year curricula consists of more professionally focused coursework. The final year is based largely upon personal research and professionally orientated project work, and the final semester of the course consists of a major project of the student's own choosing.

The course also features a number of elective studies: **Minor Studies** in professional areas and **General Studies** in broad education areas. The latter may be taken within the Faculty, elsewhere in the University or at other approved tertiary institutions. The choice of electives is at the student's discretion, but subject to availability / approval.

All students are required to gain **practical experience** in professional design practice to augment and complement their academic studies. Advice and approval should be sought from the appropriate members of staff.

## FASHION AND TEXTILE DESIGN

Fashion and textile design is concerned with the design of fashion clothing, printed and knitted fabrics, their related fields and technologies. The course deals with the changing needs and values of society and how this reflects on the direct and allied industries. The context of the course encompasses aspects from street to high-end fashion, and fashion to household textiles.

Fashion and textile designers work with or alongside manufacturers and marketers, they have responsibility for design direction and marketability of produced concepts, and combine this with an awareness of current and projected trends and values in lifestyle.

This is combined with a detailed understanding of materials, skills and processes of the fashion and textile industry. The fashion and textile course is planned to produce graduates who aspire to the highest level of practice and as individuals are capable of adapting to the diversified and changing nature of the industry.

First-year studies include common problem-based projects and activities. Major studies for fashion and textile design in the later years cover four areas: design, communication and history of design, process technology of both fashion and textiles, marketing and management plus business practice. Students are required to gain practical experience in the second semester of third year, to augment and complement their academic studies.

Fashion design spans all areas from mass production to custom made, all being supported with market research. Textile print design covers the spectrum from fashion to household and commercial use. Knit design ranges from commercial mass production to hand-produced product.

Communication techniques include objective drawing, fashion and print drawing and illustration for client presentation, both freehand and computer-generated desktop publishing. History covers design and lifestyle.

Technologies in fashion span the process from fabric content construction and characteristics, pattern design, through to construction and finish. Textile print includes fabric construction and finish, fabric characteristics, print and dyeing techniques used in industry. Knit technology covers yarn content characteristics, pattern design, construction methods and machine technology. Marketing includes both principles of marketing and applied marketing. Management deals with the management of people and with the process of manufacture such as Total Quality Management, Just in Time etc. Professional practice covers the spectrum of setting up a business and the practice of such.

### Course structure

Credit points are shown in brackets.

#### Stage 1

---

*Autumn semester*

85000 Design 1 (24cp)

#### Stage 2

---

*Spring semester*

83220 Design Project F&T 2 (24cp)

#### Stage 3

---

*Autumn semester*

83330 Design Project F&T 3 (14cp)  
Minor study (6cp)  
General study (4cp)

#### Stage 4

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*Spring semester*

83440 Design Project F&T 4 (14cp)  
Minor study (6cp)  
General study (4cp)

#### Stage 5

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*Autumn semester*

83550 Design Project F&T 5 (14cp)  
Minor study (6cp)  
General study (4cp)

#### Stage 6

---

*Spring semester*

83660 Design Project F&T 6 (14cp)  
Minor study (6cp)  
General study (4cp)

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**Stage 7**

---

*Autumn semester*

- 83770 Design Project F&T 7 (16cp)  
83780 Research Dissertation F&T (8cp)

**Stage 8**

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*Spring semester*

- 83880 Major Project F&T (24cp)

**INDUSTRIAL DESIGN**

Industrial design is concerned with the design of products for manufacturing industry. The industrial designer works with manufacturers, and has responsibility not only for the visual and tactile qualities of products but also to a large extent for their safety, efficiency and cost effectiveness. The industrial design course is planned to produce graduates who are capable of providing industry with leadership in design, and who will adapt successfully to industrial and social change.

First-year studies include common problem-based projects and activities. Subjects studied in later years fall into three complementary groups: manufacturing science and technologies; expressive and communication techniques; and design. The Manufacturing Science and Technologies strand includes the study of engineering principles and of manufacturing materials and methods. The Expressive and Communication Techniques strand covers analytical, presentation and engineering drawing; model-making; and written communication. The Design strand includes the design of products for mass production and marketing and design for appropriate technologies. In the final year students undertake a research study and develop in depth a design based on their research findings.

**Course structure**

Credit points are shown in brackets.

**Stage 1**

---

*Autumn semester*

- 85000 Design 1 (24cp)

**Stage 2**

---

*Spring semester*

- 84220 Design Project ID 2 (24cp)

**Stage 3**

---

*Autumn semester*

- 84330 Design Project ID 3 (14cp)  
Minor study (6cp)  
General study (4cp)

**Stage 4**

---

*Spring semester*

- 84440 Design Project ID 4 (14cp)  
Minor study (6cp)  
General study (4cp)

**Stage 5**

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*Autumn semester*

- 84550 Design Project ID 5 (14cp)  
Minor study (6cp)  
General study (4cp)

**Stage 6**

---

*Spring semester*

- 84660 Design Project ID 6 (14cp)  
Minor study (6cp)  
General study (4cp)

**Stage 7**

---

*Autumn semester*

- 84770 Design Project ID 7 (16cp)  
84780 Research Dissertation ID (8cp)

**Stage 8**

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*Spring semester*

- 84880 Major Project ID (24cp)

**INTERIOR DESIGN**

Interior design is concerned with the design of all facets of the interior environment in response to the particular human activities occurring within. The interior designer works with the building construction and product supply industries to create interior environments for specific purposes. Often work is undertaken in association with other design and technological consultants. A designer of interiors is required to have a thorough understanding of human environmental needs and to have the capacity to develop appropriate design solutions and organise their realisation.

First-year studies include common problem-based projects and activities. The later years of the course are problem-based in an academic direction. They combine and utilise information from the academic study fields to produce design problems for students that offer a holistic view to the designing of interior environments.

### Course structure

Credit points are shown in brackets.

#### Stage 1

##### Autumn semester

85000 Design 1 (24cp)

#### Stage 2

##### Spring semester

86220 Design Project IT 2 (24cp)

#### Stage 3

##### Autumn semester

86330 Design Project IT 3 (14cp)  
 Minor study (6cp)  
 General study (4cp)

#### Stage 4

##### Spring semester

86440 Design Project IT 4 (14cp)  
 Minor study (6cp)  
 General study (4cp)

#### Stage 5

##### Autumn semester

86550 Design Project IT 5 (14cp)  
 Minor study (6cp)  
 General study (4cp)

#### Stage 6

##### Spring semester

86660 Design Project IT 6 (14cp)  
 Minor study (6cp)  
 General study (4cp)

#### Stage 7

##### Autumn semester

86770 Design Project IT 7 (16cp)  
 86780 Research Dissertation IT (8cp)

#### Stage 8

##### Spring semester

86880 Major Project IT (24cp)

## VISUAL COMMUNICATION

Design of visual communication involves the creation, processing and production of messages presented in a visual form. Designers in this area are employed to use their creativity and knowledge to determine the optimum effectiveness of the message, visually communicated to a selected group of people. The message may be designed to instruct, direct, inform, entertain or persuade. Visual development and processing most often uses a combination of words and images, produced freehand or with the assistance of computer, photographic, and/or video technologies. In visual communication, designed messages are reproduced or transmitted to the end user/viewer through print or screen media.

The course aims to prepare students for this diversity and expects graduates to aspire to the highest level of practice while encouraging them to take a critical and imaginative stance to their eventual professional role in commerce and society. Integral to the course is an understanding of the way the design process is mediated by the contemporary socio-political framework within which it occurs.

Subjects actively encourage learning and design processing rather than the performance of skill-based tasks. Having emphasised creative visual thinking and introduced relevant media, students are encouraged to develop their individual talent and career orientation through project selection.

Lectures and tutorials examine the historical and contemporary context of design and practice and by initiating a focus for research and project activity, close links are established between practice and theory. Design problems are supported by workshops which develop specific skills to assist the exploration, processing and realisation of design solutions. The integrated structure of activities at each stage offers a holistic model of design practice.



## Course structure

Credit points are shown in brackets.

### Stage 1

---

#### Autumn semester

85000 Design 1 (24cp)

### Stage 2

---

#### Spring semester

87220 Design Project VC 2 (24cp)

### Stage 3

---

#### Autumn semester

87330 Design Project VC 3 (14cp)  
 Minor study (6cp)  
 General study (4cp)

### Stage 4

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#### Spring semester

87440 Design Project VC 4 (14cp)  
 Minor study (6cp)  
 General study (4cp)

### Stage 5

---

#### Autumn semester

87550 Design Project VC 5 (14cp)  
 Minor study (6cp)  
 General study (4cp)

### Stage 6

---

#### Spring semester

87660 Design Project VC 6 (14cp)  
 Minor study (6cp)  
 General study (4cp)

### Stage 7

---

#### Autumn semester

87770 Design Project VC 7 (16cp)  
 87780 Research Dissertation VC (8cp)

### Stage 8

---

#### Spring semester

87880 Major Project VC (24cp)

## MINOR AND GENERAL STUDIES

In order to graduate, students who have completed the first and second stages are required to complete general studies to the specified number of credit points and a strand of minor studies taken over two or four semesters, for a total of four semesters. Each subject in a minor studies strand is a prerequisite for the next level within the strand.

Minor studies subjects are offered in a range of professional areas including illustration, photography, textile design, jewellery, transportation design, furniture design and design for theatre.

General studies subjects are offered in a range of areas including creative writing, social theory and Australian society, popular culture, Aboriginal and Torres Strait Islander studies, film and television documentaries, marketing and client presentation. Students may apply to take appropriate general studies subjects in other UTS schools, or at other institutions. There are no prerequisites.

Further details of minor and general studies subjects to be offered in 1995 will be provided at the time of enrolment. When enrolling, students should check carefully the 1995 offerings and subject numbers as detailed on the separate overlays provided at that time.

## UNDERGRADUATE SUBJECT DESCRIPTIONS

### Guide to subject descriptions

The subject descriptions shown below indicate the subject code and name, the number of credit points for the subject (e.g. 3cp). For some subjects, there may also be practical components off campus, and this is indicated in the text. Also shown are the prerequisites or corequisites, if any, and a brief outline of the content.

Prerequisites are subjects which must be completed before taking the subject to which they refer. Corequisites may be completed before or be taken concurrently with the subject to which they refer.

### •COMMON FIRST SEMESTER

#### 85000

#### DESIGN 1

24cp

As the Bachelor of Design is structured with problem solving as a central focus, students are introduced to the processes in the common first semester in Design 1. To solve the issues raised, the subject offers an interlocking set of studios, lectures and workshops as follows.

The **studio** is the central activity of problem-based learning. It gives all students an opportunity to work towards a resolution of design problems, either singly or in teams, in association with a studio supervisor. The studio sessions, which are mandatory, give time for a response to the problem briefs and are an indispensable part of problem-based learning.

The **lectures** represent a program of information developed to directly support the problems. The lectures are held in Design Process; Design Context 1 and 2; Human Factors; Design Communications; History of Design; and Design Computing.

Five **workshops** have been designed to provide essential backup to the problems.

1. The **problem-solving and learning** workshop is central to the notion of

problem-based learning. Two major interlocking themes are developed. The first focuses on approaches to problem solving from an individual and group perspective and develops an understanding of the interplay between the designer and the problems being addressed. The second theme concerns learning and develops a crucial interest in the activity of learning as it develops through the problems.

2. Based on the preceding lecture series the **computing workshop** gives a semester of hands-on experience with the computer. The workshop explores writing and drawing on the computer as well as basic information on computer operation.
3. Essentially technical drawing, the **orthographic drawing** workshop presents the essential skills necessary to the practice of most design disciplines. It provides an invaluable aid in the accurate presentation of design concepts, the use of drawing tools and the means of appropriate communication techniques between designers and the people they work with.
4. A **free drawing** workshop is aimed at developing skills in the free use of drawing materials and their means of expression for designers. The workshop explores a variety of mediums all of which are of value in the presentation of design responses to problems developed within the School and subsequently in the design profession.
5. The techniques of presenting ideas in three dimensions as built form are developed in the **3D presentation** workshop. It involves elements of design and a knowledge of materials, processes and crafting skills. It develops an awareness of the value of 3D representation in the design process, the principles involved in the selection of materials and appropriate techniques for construction and allows students to become familiar with the materials and equipment most commonly used.

## • FASHION AND TEXTILE DESIGN

### 83220

#### DESIGN PROJECT F&T 2

24cp

*prerequisite: 85000 Design 1*

Design Project 2 is project driven and introduces students to the basic skills required by a fashion and/or textile designer. Emphasis is on basic principles of fashion and textile design and its process. This is supported with fabric communication lectures, context and element lectures and technologies of both fashion and textiles, along with History and Lifestyle lectures. Drawing and communication techniques, both freehand and computer generated, are included.

### 83330

#### DESIGN PROJECT F&T 3

14cp

*prerequisite: 83220 Design Project F&T 2*

This semester continues with problem-based learning. Students further explore the fields of fashion and print textiles through design and technologies. Skills and processes are advanced from the last semester. Students are introduced to Knit Design and Technology and fashion illustration as a communication skill along with more advanced forms of computer desktop publishing. Principles of Marketing introduces students to the importance of this research subject in the process of design. History and Lifestyle lectures support the projects and the context of the semester.

### 83440

#### DESIGN PROJECT F&T 4

14cp

*prerequisite: 83330 Design Project F&T 3*

Contained within the projects driving this semester are more advanced aspects of fashion, print and knit design, process and technology. Students study a more holistic approach to design and explore construction of stories, themes and adaptation. This semester introduces menswear design and the associated contexts within which this is

realised. This aspect is supported with lectures from industry professionals.

The subject Principles of Management introduces students to communication skills with people and employees and looks at conflict resolution along with other management skills. The semester is supported by a Context/History lecture series.

### 83550

#### DESIGN PROJECT F&T 5

14cp

*prerequisite: 83440 Design Project F&T 4*

A more industrial approach to the disciplines is contained within the problems set this semester. Projects are set in Fashion and Textile design in collaboration with industry and/or run with support visits or lectures from industry specialists. They are supported by advanced technical studies. Applied marketing is included as a series of lectures that acquaint students with theory specific to the fashion and textile industries, covering market niche, consumables, marketing and promotion.

### 83660

#### DESIGN PROJECT F&T 6

14cp

*prerequisite: 83550 Design Project F&T 5*

This semester students are given an opportunity to begin specialisation, with more emphasis being given to advanced aspects of the discipline. The core of the semester is project driven with additional projects as speciality. The course is structured to develop further the students' abilities to prepare, execute and present innovative and thoroughly resolved design proposals in response to given briefs. This aspect of the course is supported by Applied Management which deals with the process of manufacture such as TQM, Just in Time etc. This research is contained in all projects. A research paper supported by a series of lectures on research methods is prepared by students as an introduction to their dissertation in level 700. During this semester students are required to gain professional

experience in industry. This will be documented for approval by the course year director.

### **83770**

#### **DESIGN PROJECT F&T 7**

*16cp*

*prerequisite: 83660 Design Project F&T 6*

This semester students are given the opportunity to demonstrate their professional knowledge and decision-making ability in selected areas. For students who choose Fashion as their major emphasis this is facilitated through an agreed elected market area and demonstrated through two minor ranges. Students are required to market research, design and technically develop two ranges of marketable merchandise appropriate to their agreed area of specialisation. This includes full research documentation of the processes of both design and production. The projects are supported with lectures from industry specialists in professional practice. For students who choose Textile Print, the first part of the semester is spent developing three stories to an agreed elected area. This is supported by market research and documentation, along with professional practice. The second part of the semester is spent developing these, as well as producing some, supported by documentation of process and costing production projection. Knit students apply their design enquiry in an agreed elected area of the market through design development to final production of two minor ranges.

### **83780**

#### **RESEARCH DISSERTATION F&T**

*8cp*

*prerequisite: 83660 Design Project F&T 6*

Students are required to develop a research project oriented to support their personal direction, on a topic or area of study, individually selected by each student. As negotiated with the supervising lecturer, research can be presented in written form, including a component of visual research.

### **83880**

#### **MAJOR PROJECT F&T**

*24cp*

*prerequisites: 83770 Design Project F&T 7, 83780 Research Dissertation F&T*

Students are required to demonstrate their professional ability gained through previous study, to prepare professional quality designs in their chosen area of fashion and/or textile etc. and in doing so demonstrate their ability to work at a graduate, professional level. The student is required to design, plan, develop and produce a complete range or agreed project, supported by documentation of target market research, marketing strategy, manufacturing and costings. The student prepares his/her own program for the semester, under the guidance of a staff member. Each student is supervised by a member or members of staff. The project is supported by a series of seminars and tutorials regarding specialised aspects of the profession. Assessment is based on a presentation of completed work to a panel at the end of semester. This takes into account the degree to which the student has realised the expressed aims of the project and the degree of the professionalism in the work.

#### **•INDUSTRIAL DESIGN**

### **84220**

#### **DESIGN PROJECT ID 2**

*24cp*

*prerequisite: 85000 Design 1*

The objective of this subject is to introduce the basic skills considered essential for industrial designers. Three projects provide the focus for studies within this subject. There is an emphasis on form investigation, use of materials, and problem-solving techniques. Typical of the content are 3D workshops and study modules in design methods; orthographic and freehand drawing; and the use of computers in design. It is at this second stage of the course that students move from the multi-design discipline groups in Stage 1 to the Industrial Design Course stream. No other subjects are taken at this level.

**84330****DESIGN PROJECT ID 3***14cp**prerequisite: 84220 Design Project ID 2*

This subject encompasses all the core studies undertaken at Stage 3 of the Industrial Design course. The problem-based learning approach adopted in the previous stages is continued with three projects providing the focal point for study modules. Typical modules at this level are engineering, drawing, manufacturing and materials, basic engineering, rendering, human factors and design methodology.

**84440****DESIGN PROJECT ID 4***14cp**prerequisite: 84330 Design Project ID 3*

The same format as ID 3 is applied to this subject, and all core studies are included in this one subject. Problem-based learning is centred on the design projects which are supported by workshops and lectures. Typical lecture modules are design, computing, ergonomics, engineering drawing, manufacturing technology, engineering science, and design history.

**84550****DESIGN PROJECT ID 5***14cp**prerequisite: 84440 Design Project ID 4*

All core studies are included in this subject. Within the framework of problem-based learning students develop expertise in the decision-making process characteristic of the design manufactured goods. Lectures and seminars involving engineering science, manufacturing technology, applied marketing, and graphics for industrial design support the design projects which are selected to foster the growth of creative skills and the awareness of environmental factors related to the design of products.

**84660****DESIGN PROJECT ID 6***14cp**prerequisite: 84550 Design Project ID 5*

All core studies are included in this subject. Continuing with problem-based learning students are assigned a number of product design projects emphasising the factors which influence the acceptability of products in the marketplace. Lectures and seminars in engineering science, design computing, and design management are typical of the study modules which support the projects. It is at this stage of the course that students will also normally undertake some form of work experience.

**84770****DESIGN PROJECT ID 7***16cp**prerequisite: 84660 Design Project ID 6*

This subject develops students' decision-making ability in the area of design to enable them to contribute effectively to the research, development and marketing strategies of new consumer products. Normally projects are undertaken with clients from manufacturing industries or other sectors involved in the development of new products.

**84780****RESEARCH DISSERTATION ID***8cp**prerequisite: 84660 Design Project ID 6*

This subject is aimed at giving students the ability to investigate in depth and report on an aspect of industrial design as preparation for a major project in the following semester.

**84880****MAJOR PROJECT ID***24cp**prerequisites: 84770 Design Project ID 7, 84780 Research Dissertation ID*

This subject is the culmination of study in the industrial design course. Students apply their knowledge on a design project of their own choosing, the aim of

which is to demonstrate their ability to work at a professional level. Students are required to prepare their own programs under the guidance of a member of staff. On completion the project is assessed by a panel which includes a professional, practising designer. This is the only subject undertaken at this final stage of the course.

## • INTERIOR DESIGN

### **86220**

#### **DESIGN PROJECT IT 2**

24cp

*prerequisite: 85000 Design I*

This subject represents the academic core studies of interior design for students in Stage 2 of the course. Academic study fields instituted in Stage 1 will continue to direct and reinforce design projects undertaken in this subject. Through a series of experiential design projects students will gain a broader understanding of the breadth and diversity of interior design practice and the relevant issues and problems to be addressed in the design of interior spaces. As in all subsequent core studies, students will be presented with a holistic model of design problem solving. Knowledge and skills gained from issues raised in the academic study fields will be assessed within the design projects. At this level Interior Design projects are selected from community or institutional sources and are single functioning spaces. Academic study fields include Design Context, Design History, Design Methods, Design Elements, and Design Communications. Communication workshops will specialise in three-dimensional representation, orthographic drawing, freehand drawing and illustration.

### **86330**

#### **DESIGN PROJECT IT 3**

14cp

*prerequisite: 86220 Design Project IT 2*

This subject represents the academic core studies of Interior Design students

in Stage 3 of the course. Through a series of experiential design projects, students will gain a broader understanding of the relevant issues and problems to be addressed in the design of residential interior spaces. Projects are selected from community and commercial sources, specifically interior spaces for casual or permanent domicile. Academic study fields instituted in the first year of the course will continue to direct and reinforce projects undertaken in this subject. Knowledge gained from issues raised in academic study fields will be assessed within the design project solutions. Academic study fields will include Design Context, Design History, Design Methods, Design Technology, Environmental Systems, Design Communications. Communication workshops will specialise in design illustration, advanced orthographic drawing and design computing.

### **86440**

#### **DESIGN PROJECT IT 4**

14cp

*prerequisite: 86330 Design Project IT 3*

This subject represents the academic core studies of Interior Design students in Stage 4 of the course. Through a series of experiential design projects, students will gain a broader understanding of the relevant issues and problems to be addressed in the design of commercial public spaces in the hospitality area. Projects are selected from commercial sources. Specifically, projects will centre on the hospitality industry: restaurants, cafes, food premises, entertainment spaces and public bars.

Academic study fields will, as in preceding semesters, support the design projects and include Design Context, Design History, Design Methods, Design Technology, Environmental Systems, and Design Communications. Communication workshops will specialise in design illustration and design computing.

**86550****DESIGN PROJECT IT 5***14cp**prerequisite: 86440 Design Project IT 4*

This subject represents the academic core studies of Interior Design students in Stage 5 of the course. Through a series of experiential design projects, students will gain a broader understanding of the relevant issues and problems to be addressed in the design of commercial interior spaces. Selected from commercial sources, specifically, projects will centre on workplace design: commercial offices, banking chambers; and retail design: retail arcades, retail interiors. Academic study fields will, as in preceding semesters, support the design projects. Academic study fields include Design Context, Design History, Design Methods, Design Technology, Environmental Systems, and Design Communications. Communication workshops will specialise in verbal communication and design computing.

**86660****DESIGN PROJECT IT 6***14cp**prerequisite: 86550 Design Project IT 5*

This subject represents the academic core activity of Interior Design students in Stage 6 of the course. At this stage, design projects are in the specialised area of adaptive reuse and interior conservation. Selected projects require students to analyse and respond to the existing spatial conditions and interior fabric of buildings of either social or historical significance and design spaces within contemporary functions and systems. Academic study fields include Design Context, Design Technology, Environmental Systems, Research Methods, Design Methods, and Interior Conservation.

During this sixth stage of the course, students are required to gain professional experience in industry. Experience is to be documented for approval by the student's academic supervisor.

**86770****DESIGN PROJECT IT 7***16cp**prerequisite: 86660 Design Project IT 6*

Selected projects at Stage 7 of the course require students to design complex multifunctioning interior spaces. Problems are selected from industry and require demonstration of knowledge gained in previous academic study fields at an advanced level. Students are also required to utilise knowledge gained from their minor studies.

Students' learning is predominantly self-directed at this stage of the course. Academic study fields formally presented in this stage of the course include Interior Design professional practice, Market Research, and Design Technology.

**86780****RESEARCH DISSERTATION IT***8cp**prerequisite: 86660 Design Project IT 6*

Requires students to develop a research project, in consultation with a supervising lecturer, on a topic or area of study which supports the students' personal direction and career orientation within design practice.

**86880****MAJOR PROJECT IT***24cp**prerequisites: 86770 Design Project IT 7, 86780 Research Dissertation IT*

Requires students to design a major interior work to a brief they have developed, to demonstrate their knowledge and abilities and to establish their preparedness for professional practice. The project involves a complex of spaces providing a specialist environment and requires a significant modification of the interior of an existing or proposed building. Students prepare their own semester program and are supervised by a staff member. The project assessment is based on the supervisor's assessment of the student's work methods and a panel assessment takes into account the degree

to which the stated aims of the project have been achieved and the professionalism evident in the work.

### **ACADEMIC STUDY FIELDS**

The following academic study fields constitute the specific areas of study undertaken by students in the Interior Design Course. Information is presented to students in a variety of ways including lectures, tutorials, research packages and workshops.

#### **Design Context**

Lectures from and discussions with a variety of user groups, consultants and experts on issues of contextual relevance to the design projects are presented in this study field. This allows for informed design decisions and appropriate solutions to design problems.

#### **Interior Design History**

Through a series of lectures and research reports students will identify and draw upon appropriate historical precedents for their work and gain understanding of design philosophies and systems developed for and by designers in the past.

#### **Design Technology**

Through a series of lectures, tutorials and research topics, students will gain competency in the selection of materials, technological systems, fabrication and construction methods.

#### **Design Methods**

This academic study field develops students' ability to make design decisions using a clear process of decision making.

Techniques of research, problem analysis and evaluation, conceptual development, precedent analysis are developed in this study field.

#### **Design Elements**

This field assists the students in developing knowledge and skills in design composition. Specifically the elements that affect the composition of interior environments are studied. Areas investigated include composition phenomena and human responses to the environment.

### **Environmental Systems**

The physical issues that influence the interiors of buildings are covered in this field. Subjects studied include the systems and methods of controlling the lighting, temperature and sound within an interior. Knowledge is gained by the student incrementally and tested in her/his design solutions.

### **Furniture Fittings and Equipment**

This study field covers issues of manufacture, selections and specification of furniture, fittings and equipment to be used in interiors.

### **Design Communications**

Lectures, workshops and exercises are undertaken to develop students' competency in communicating design exploration, design ideas, to clients, consultants and contractors. The following workshops comprise the Communications strand in the Interior Design Course:

*Three-Dimensional Representation* — this workshop aims to establish the value of three-dimensional representation in the design process. Via the process of model making, students will investigate the qualities of interior spaces. They will develop an understanding of model-making materials and appropriate techniques for model construction.

*Orthographic Drawing* — this workshop emphasises the value of accurate drawing systems in the design process by investigating proportioning systems, geometrically derived design and surface development drawings. Drawing conventions for plans, sections and evaluations of buildings and interiors are also introduced and developed as is the production of three-dimensional representations. Systems for communication with fabricators and contractors will be developed and tested in design projects.

*Illustration* — this workshop combines studio and field activities and emphasises the importance of visual thinking in the design process. Emphasis is given to the communication of the emotive qualities of interior spaces. The workshop also explores the value of colour



and various rendering techniques in the design and communication process.

*Freehand Drawing* — this workshop develops the students' abilities at drawing and sketching spaces, objects and life subjects using a variety of media and techniques.

*Design Computing* — through a series of lectures and tutorials students will gain competency in a variety of computer systems ranging in application from three-dimensional visualisation and composition to contract documentation.

## • VISUAL COMMUNICATIONS

### 87220

#### DESIGN PROJECT VC 2

24cp

*prerequisite: 85000 Design 1*

This subject introduces students to the academic core study of the Visual Communication major. The structure of integrated problem-based learning continues. Study fields initiated at Stage 1 continue to direct and reinforce problem setting and project activities.

#### Design Context

Design practice is examined in the context of historical and contemporary cultural movements and technological developments over the last 150 years. The artistic movements and the intellectual and philosophical framework that have shaped design are examined in order to research and analyse the relationship of design to technology, material culture and consumption. Contemporary issues impacting on the role of the designer in society such as gender, ethnicity, multiculturalism, national identity and popular culture are introduced and developed through project activity.

#### Design Methods

Project activity offers a model of design practice requiring research, visual exploration, creative problem solving, design processing and the visual, verbal presentation of design solutions. Students are introduced to the demands and limitations of screen and print media technologies.

### Design Elements

These are investigated through visual research and practical exploration integrated into project development and problem solving. Investigations focus on: word and image reinforcement; figure and ground relationships; scale, space and context; 2D and 3D translations; static and dynamic transition; sequence, framing and the illusion of movement.

### Design Communication

A number of workshops support visual studies and project activity:

- Visual Studies Workshop directly relates to project activity assisting students to explore ideas, develop visual awareness and improved levels of visual literacy and visualising competence.
- Image/Photo Workshop introduces photography as a technologically produced image. Students work with black and white format developing their 'way of seeing' and gaining technical competence in photographic image generation and reproduction.
- Word/Typo Workshop introduces basic type forms, typographic terminology applications and develops skill in visualising text in various formats.
- Occasional workshops in computer applications and graphic presentation techniques further develop knowledge and competencies which assist the processing and presentation of project work.

### 87330

#### DESIGN PROJECT VC 3

14cp

*prerequisite: 87220 Design Project VC 2*

This subject is the academic core study of the Visual Communication major. The structure of integrated problem-based learning continues. Study fields developed through earlier stages continue to direct and reinforce problem setting and project activities.

### Design Context

Lectures and tutorials examine the social and technological context that has encouraged and enabled design to develop as a recognised activity and professional practice. Relevant aspects of contemporary theories such as semiotics, psychoanalysis, feminism and cultural theory are examined as they apply to the reading, interpretation and analysis of design, production and the context of visual images.

### Design Methods

Students, in response to a given brief, develop their ability to design and process ideas with consideration of media technologies and the needs and perceptions of end user. Project activity focuses on the design of visual communication applicable to both graphic design and print reproduction and the design and production of moving images (animation and video) for transmission to the screen.

### Design Elements

The selection and application of words, images, signs and symbols are examined as primary elements of visual communication design. The notion of 'visual metaphor' as integral to the development of visual language is investigated and applied through project development.

### Design Communication

A number of workshops support project activity.

- Visual Research Workshop explores graphic elements and media, and their application to graphic formats, story-boards, and experimental animation. The application of visual research to both graphic static, illusory movement and real-time video is emphasised.
- Image/Photo Workshop further develops knowledge and skills in photography and initiates the design of 'constructed' images through introductory experience in the photographic studio.
- Word/Typo Workshop further develops knowledge and skills in generating, manipulating and applying words, symbols and images to graphic and screen formats.

Computer access and the introduction to additional software programs balance hand-generated and electronically assisted production.

## 87440

### DESIGN PROJECT VC 4

14cp

*prerequisite: 87330 Design Project VC 3*

This subject is the academic core study of the Visual Communication major. The structure of integrated problem-based learning continues. Study fields developed through earlier stages continue to direct and reinforce problem setting and project activities.

### Design Context

Lectures and tutorials examine the role and responsibility of designers in shaping the past, present and future. The impact of historical developments and precedent on the future of design and society provide the focus for project activity. Projects develop the theme of past and future. Topics such as modernity, post modernity, green design and sustainable futures are examined.

### Design Methods

Experience gained in design for print and screen reproduction and transmission is consolidated and integrated with photographic and hand-generated word/image technologies. Within each project focus, students are encouraged to make personal choices, developing an orientation of personal interest through project work.

### Design Elements

As confidence and competency develop in structuring visual communication this study field becomes fully integrated. Notions of element selection, bias, expression, stereotyping, ambiguity, subjectivity, objectivity, information and persuasion are investigated through project processing and evaluation.

### Design Communication

Previously separate workshops are integrated into design project. Students continue to develop knowledge and skills in design processing and production technologies through access to photography, video, animation, computing and graphic pre-press facilities.

**87550****DESIGN PROJECT VC 5**

14cp

*prerequisite: 87440 Design Project VC 4*

This subject is the academic core study of the Visual Communication major. The structure of integrated problem-based learning continues. Study fields are now fully integrated into problem solving, design processing and production.

A major shift of focus occurs at this level of study requiring students to thoroughly examine professional design practice and to start to identify their personal career orientation. The role and responsibility of current practitioners, professionalism, ethical practice, prevailing philosophies and alternative visions are examined in detail. The wants of clients and the needs of users and their impact on design solutions are analysed and critically evaluated.

Study at 500 and 600 levels introduces a number of learning options.

*International Exchange Program:*

A number of places are available to study at equivalent institutions in England and Germany. Detailed information is circulated and an exchange can be negotiated at either 500 or 600 level.

*Professional Experience Program:*

All students are required to gain practical experience in professional design practice to augment and complement academic study. A period of approximately five to six weeks is released from major study, usually at 600 level but may be negotiated to occur at 500 level or during the mid-semester break in July. Advice, approval and monitoring are undertaken by academic supervisors.

*Community Project Program:*

At either 500 or 600 level students participate in a 'Community Project'. A number of identified community groups requiring design expertise are invited to become clients, briefing students on requirements. Students form design teams to offer their services, negotiate with clients and present solutions for discussion, approval, further development and production if finally

approved. A model of design practice having been initiated is thoroughly discussed and evaluated. The role of designer in a team enterprise is investigated as students reflect on the experience of a 'live' project.

*Design Project:*

If not involved at this stage in any of the above activities, students may choose project work from a number offered by interdisciplinary teams of lecturers. These could include: photography and graphics; typography and video; animation and image-making. Each project either simulates or involves a live design project. External guests may be involved in problem setting and feedback. The reality of problem context and application is emphasised which may include the role of marketing, client communication, external contacts, time management, research, resourcing materials and processes and other aspects of project management. Students experience the need to communicate effectively using visual, verbal and written language as well as developing the confidence to personally present ideas to clients and technical production specialists.

**87660****DESIGN PROJECT VC 6**

14cp

*prerequisite: 87550 Design Project VC 5*

This subject is the academic core study of the Visual Communication major. The structure of integrated problem-based learning continues. As indicated previously a number of learning options are available for student choice.

The practice of contemporary design both nationally and internationally, the impact of technological change and the role of research in design practice are examined and critically evaluated.

Through project selection and orientation students are encouraged to identify a personal direction and develop individual knowledge, expertise and commitment. A number of seminars and workshops enable students to refine their capacity to undertake a high level of visual research and assist the

development of research methodologies in preparation for undertaking personally directed enquiry and study in the final year of the course.

### **87770**

#### **DESIGN PROJECT VC 7**

16cp

*prerequisite: 87660 Design Project VC 6*

*corequisite: 87780 Research Dissertation VC*

This subject is the academic core study of the Visual Communication major. Study is self-directed and negotiated with an academic supervisor through the use of a learning agreement developed as a personal brief. Students have an opportunity to reflect on their career objectives, undertake visual research, develop production expertise and introduce personally initiated design briefs in preparation for the final major project program.

The student group is set the task of initiating planning of the end of year including the design of personal promotion and publicity for the degree work exhibition. Visiting graduates assist students to clarify goals and further the process of professional networking.

### **87780**

#### **RESEARCH DISSERTATION VC**

8cp

*prerequisite: 87660 Design Project VC 6*

*corequisite: 87770 Design Project VC 7*

Students are required to undertake a research project orientated to support their personal direction, on a topic or area of study, individually selected by each student. As negotiated with the supervising lecturer, research can be presented in written form or include a substantial component of visual research.

### **87880**

#### **MAJOR PROJECT VC**

24cp

*prerequisites: 87770 Design Project VC 7,*

*87780 Research Dissertation VC*

Students will apply their knowledge and abilities gained through previous

studies and experience to a major project program of their own choice and in doing so demonstrate their ability to work at a graduate, professional level. Students plan their own semester activity based upon an approved project or projects, and work under a supervisor and with nominated consultants. The project assessment is based upon the supervisor's assessment of the students' work methods and a panel assessment of the final presentation. The panel assessment takes into account the degree to which students have achieved the stated aims of the project(s) and the professionalism evident in their work. Invited designers advise the panel to ensure professional relevance.

### **• GENERAL STUDIES**

### **51002**

#### **CREATIVE WRITING 1**

4cp

Develops the basic skills in writing for publications, technical projects, film and television through a weekly series of seminars/tutorials. Topics covered include writing for various publications including books, magazines and newspapers; report writing; product support writing and copywriting; script writing for film and television. Traditional and contemporary examples from various fields will be discussed.

### **51003**

#### **SOCIAL THEORY AND AUSTRALIAN SOCIETY 1**

4cp

Provides a framework in which to examine theories about the self and society and an understanding of the individual in relation to a social, cultural and political context. There is a series of lectures and tutorials on social psychology (general introduction; social psychology of the individual; group influences upon individual behaviour; social interaction; group structure and membership; leadership); sociology (general introduction to sociology in

Australia; the Marxist tradition; social mobility and elites; the Weberian tradition; anthropology and its relation to sociology; case study; sociology and design).

### **51006**

#### **CREATIVE WRITING 2**

4cp

*See the Faculty of Humanities and Social Sciences Handbook for details*

### **51007**

#### **MEDIA STUDIES**

4cp

Gives an understanding of the individual properties and potentials of print, audio and visual media and their appropriate use. There is a series of lectures and discussions on (1) basic communication theory, messages, communicators and audiences; and (2) properties and potentials of print, radio, TV etc. Theories of McLuhan, Schwarz and others are discussed.

### **51008**

#### **SOCIAL THEORY AND AUSTRALIAN SOCIETY 2**

4cp

Provides an in-depth sociological analysis of selected aspects of Australian society and culture. Has a flexible content and structure, so that staff and student concerns may determine several themes for any semester. Examples of possible themes are: immigration, ethnicity and multiculturalism; gender and social power; social class and the distribution of wealth and income; Australian popular culture.

### **80039**

#### **ABORIGINAL AND TORRES STRAIT ISLANDER ART AND CULTURE 1**

4cp

The lectures introduce students to a critical understanding of aspects of Aboriginal culture and to facets of

Aboriginal involvement in Australia's history and contemporary politics. The program contains perspectives on Aboriginal art and culture, especially in relation to communication that will be relevant to design students in their studies and careers. A willingness to accept challenges to widely held beliefs and attitudes is essential.

### **80040**

#### **ABORIGINAL AND TORRES STRAIT ISLANDER ART AND CULTURE 2**

4cp

Introduces students to the Aboriginal history of 'Australia' and to the Aboriginal analysis of the impact of white invasion and white society on Aboriginal nations. The course will develop these analyses around 'issues' relating to dispossession such as Land Rights claims, legal control and force, political control and political mobilisation, health issues, employment issues, education, art, literature, film etc.

### **80050**

#### **MARKETING**

4cp

Acquaints the design student with modern marketing theory. There is a series of lectures and seminars covering such topics as marketing and design; marketing concepts; marketing environment; segmentation; industrial and consumable marketing; planning; products and services; life cycles; packaging; promotion; distribution.

### **80051**

#### **DESIGN HISTORY 1**

4cp

Gives students an understanding of the relationship of design and designers to their cultural milieu by looking at design problems, techniques and solutions from a range of cultures. Two topics are presented.

Topic 1 – the development of architecture and other design elements in

various cultures e.g. Indian, Tibetan, Japanese, Indonesian and Western.

Topic 2 – the materials, symbols and design elements of traditional artifacts from Japan, China and Papua New Guinea.

## **80052**

### **DESIGN SYSTEMS**

*4cp*

Examines some categories of design problems and solutions that transcend professional boundaries and use systems concepts as an aid to their understanding. A series of lectures and discussions on phenomena such as modularity, product evolution, designing for uncertainty and whether small really is beautiful.

## **80053**

### **POPULAR CULTURE**

*4cp*

Gives an overall perspective on the role of popular culture, especially the popular arts and design in contemporary society. A series of lectures, seminars and tutorials provide an introduction to the theory of popular culture as the dominant social context of our time and explore the popular arts, mass media and design as cultural communication. Subjects include film, cartooning, pop music, jazz, video, craft, vernacular design, print media, TV and the built environment.

## **80056**

### **CINEMA AND TV STUDIES**

*4cp*

The aim of this subject is to introduce students to approaches to cinema and television study. Through a series of lectures and screenings, various ways of gaining more informed understanding of cinema and television material will be developed.

The material covered will include fiction and documentary, feature, mini-series and short form production. The approaches will include silent cinema,

national cinema, auteur theory, ciné-*mavérité*, *avante-garde*, genre study, melodrama and TV soap. Each of these approaches will be outlined in the context of their historical development. More specifically, the questions of form and function with reference to culture, aesthetics, technological development and economics will be addressed.

In the latter stages of the semester, students will be introduced to some of the contemporary concerns arising from recent developments to do with film and computer-based technology. In particular, the consequences for feature film development will be examined.

## **80070**

### **MARKET RESEARCH**

*4cp*

Provides a working knowledge of the practical application and use of survey data from independent research in solving design problems. There is a series of seminar/tutorials dealing with research design and proposal; questionnaire design; sampling; interviewing; scoring; data interpretation; industrial research; research and segmentation of markets.

## **80071**

### **DESIGN HISTORY 2**

*4cp*

Provides a further understanding of the relationship of design and designer to their cultural milieu. Two topics will be presented in lectures and seminars.

## **80072**

### **ENVIRONMENTAL SYSTEMS**

*4cp*

Examines various aspects of artificial and natural environment systems in order to understand basic characteristics of control, system failures and the scope for human intervention in such systems. Lectures and discussions based upon large- and small-scale systems such as energy cycles, transportation and buildings.

**80073****CLIENT PRESENTATION***4cp*

Provides students with practical skills in the planning and presentation of information and proposals to client groups using audiovisual equipment. There is a series of lectures and demonstrations dealing with coordination of equipment; group presentations; individual presentations; planning for major presentations; commercial applications.

**80076****VISUAL PERCEPTION***4cp*

Provides students with an exploration of how all sorts of apparently practical aspects of life, from food to dress, from illness to sexuality, even birth and death, are represented in our minds, our language and our imagery as systems of symbols, often centering on our sense of identity and our relations with others. The course will begin with a short discussion of symbolism in the psychoanalytic sense (Freud, Jung) and metaphor in the literary sense, but will have wider scope. A series of lectures/discussions/presentations will develop themes and topics. Students will be free to negotiate topics that interest them and that can be classified as part of the 'symbolic order'. Material discussed will include the work of Susan Sontag, Alison Lurie, Roland Barthes and the linguist Gordon Lakoff.

**80079****FILM AND TELEVISION  
DOCUMENTARY***4cp*

The aim of the course of study will be to give students an introduction to the documentary film in terms of tracing its origins from the Lumiere Brothers at the turn of the century, through its development in the USSR from 1917, Great Britain and the USA in the 1930s and 1940s, its propaganda uses during World War II, its post-World War II

educational applications in Canada and Australia under government sponsorship, its ethnographic applications, the 1960s and 1970s social and political cinéma-vérité developments in France, the USA and Australia, and finally its transformation to current affairs and general interest television formats with particular reference to Australia.

Students will be required to familiarise themselves with the documentary film by attending screenings, contributing to discussions, and by the presentation of seminars or the writing of essays on selected topics within the course outline.

**•MINOR STUDIES SUBJECTS****88302****ENVIRONMENTAL  
COMMUNICATIONS 1***6cp*

Provides students with experience of the diversity of design problems relating to communicating with the public at the environmental scale and the many factors involved in their solution; the opportunities for and the nature of professional practice in this field. The following topics are covered by industry and site visits, lectures, seminars and assignments – professional practice in the field and an introduction to the industry that supports it; the history of type and letterforms; the design and application of alphabets; generation of graphic symbols; factors affecting their visual perception when used in signage systems; objective testing of visual communication. Projects include museum exhibit, exhibition, display and signage design.

**88304****ILLUSTRATION 1***6cp*

Provides students with an understanding of the use of illustration as a communication tool, together with an introduction to a wide range of illustration media techniques and experience of their use in a number of applications relevant to their various design majors. A series of

workshops, demonstrations and practical tasks concerned with a range of techniques and applications are undertaken.

### **88305**

#### **PHOTOGRAPHY 1**

6cp

Provides students with a command of photographic techniques and experience of their application in a range of specialist areas relevant to the various design majors. A series of seminars/tutorials and tasks are undertaken. Emphasis is placed on visualisation of concepts and the exploration of suitable means for realising those concepts. Specific aspects of photography (e.g. fashion, product) are addressed and students are given opportunities for appropriate specialisation.

### **88306**

#### **TEXTILE DESIGN 1**

6cp

Gives students a level of technical and design ability within the areas of knitted, woven and printed textiles which will produce an understanding of the social and environmental responsibilities of a professional designer. A series of lectures, seminars, workshops and tasks are undertaken, and are concerned with the following: preparation of constructed and printed textile designs; preparation of transparencies and silk-screens; fabric and fibre appreciation; and history of textiles.

### **88308**

#### **FILM AND VIDEO DESIGN 1**

6cp

Provides students with an understanding of the techniques and processes involved in the planning and detailed design of film and video productions, and experience of relevant aspects of design. The first (300) level semester provides an introduction to the basic language, technology and procedures of film and video production and to the roles of the various members of production and design teams. Subsequent

semester units give students experience of script analysis, design research, pre-production planning, storyboard, set design and construction, model making, costumes, special effects, titles, makeup design, lighting and camera work. Students have opportunities for appropriate specialisation. A series of lectures, screenings and discussions will deal with the history, theory and practice of the screen media. Production exercises give students direct experience of design for film and video. **The subject is offered only as access is available.**

### **88309**

#### **TRANSPORTATION DESIGN 1**

6cp

An introduction to vehicle design and a general understanding of these complex products. A theoretical component of the course will look at the dynamics of a moving wheeled product, including power transmission and steering geometry. A project team will design and construct a simple powered 'device' for moving one person. Operator comfort and aesthetic qualities will be considered. A field trip is included.

### **88311**

#### **FURNITURE DESIGN 1**

6cp

*prerequisite: a high level of competency in the communication areas of orthographic drawing and 3D representation*

Introduces students to the specialised area of furniture design. This subject examines, through the academic fields of history, design theory, ergonomics and appropriate technology, the methodologies and systems of furniture design. Students will progress through a series of projects and gain a specialised knowledge of the area of design and fabrication of furniture pieces. Students will be expected to realise models and prototypes of their designed works in the later stages of the course.

Lectures and workshop classes will be supported by factory and workshop visits.



**88312****DESIGN FOR THEATRE 1**

6cp

Introduces students to the specialised areas of design for performances in theatre spaces. The subject examines through the academic fields of history, design methodology, script analysis, the professional roles of the set and costume designer. This is a multidisciplinary course which will bring students together to solve specific design problems. The first level of this course deals with the various roles of members of the design team while exploring the basic language and procedures in theatre. In subsequent semesters, students will develop their specialised knowledge through designing productions of an increasingly complex nature.

Problems will be delivered and assessed by visiting professionals from a diverse range of performance areas: drama, opera, ballet.

**88402****ENVIRONMENTAL COMMUNICATIONS 2**

6cp

Continuation of 88302.

**88404****ILLUSTRATION 2**

6cp

Continuation of 88304.

**88405****PHOTOGRAPHY 2**

6cp

Continuation of 88305.

**88406****TEXTILE DESIGN 2**

6cp

*prerequisite: 88306 Textile Design 1*

Provides students with a further understanding of the application of design for printed textiles in industry and society. The course will contain a series of

lectures, tutorials, demonstrations and tasks concerning: preparation and production of a printed design into a sample length of fabric; printing of a multicoloured design; carpet and rug design; and use of appropriate fabric/fibre/yarn into given design contexts. Site visits to textile industries and commercial enterprises support the study program.

**88408****FILM AND VIDEO DESIGN 2**

6cp

Continuation of 88308. **Offered only if available at Stage 1.**

**88409****TRANSPORTATION DESIGN 2**

6cp

*prerequisite: 88309 Transportation Design 1*

Further develops students' understanding of the complexity of designing moving wheeled products. The first of a two-semester project to design a passenger car for a specific market segment, including theory of aerodynamics, anthropometrics, legal requirements etc. Interior design will be looked at, including seats, fascia, fabrics, colours, instrumentation, hardware etc. A field trip is included.

**88411****FURNITURE DESIGN 2**

6cp

Continuation of 88311.

**88412****DESIGN FOR THEATRE 2**

6cp

Continuation of 88312.

**88501****COMPUTERS AND DESIGN 3**

6cp

Upon entry to 500 level and having satisfactorily completed computer workshops, lectures and studies in their major, any student may apply to change

her or his minor study enrolment to **Computers and Design 3 and 4.**

This strand focuses on the professional use of computer programs used in design practices and industries relevant to the major study in which the student is enrolled. Issues such as the effect of computers on the design process together with the advantages and disadvantages inherent in their use are discussed and examined. It also gives an added opportunity to those students who wish to use computers as their main design tool.

**88502**  
**ENVIRONMENTAL**  
**COMMUNICATIONS 3**

*6cp*  
Continuation of 88402.

**88503**  
**FILM AND VIDEO DESIGN 3**

*6cp*  
Continuation of 88408.

**88504**  
**ILLUSTRATION 3**

*6cp*  
Continuation of 88404.

**88505**  
**PHOTOGRAPHY 3**

*6cp*  
Continuation of 88405.

**88506**  
**TEXTILE DESIGN 3**

*6cp*  
*prerequisite: 88406 Textile Design 2*  
Further develops students' understanding of current industrial design methods, and to provide the opportunity for exploring advanced techniques in the areas of knitted, woven or printed textiles. Students may specialise in the study and design of textiles for upholstery, furnishings, household textiles, corporate identity and/or concept design or history of textiles.

**88509**  
**TRANSPORTATION DESIGN 3**

*6cp*  
Continuation of 88409.

**88511**  
**FURNITURE DESIGN 3**

*6cp*  
Continuation of 88411.

**88512**  
**DESIGN FOR THEATRE 3**

*6cp*  
Continuation of 88412.

**88601**  
**COMPUTERS AND DESIGN 4**

*6cp*  
Continuation of 88501.

**88602**  
**ENVIRONMENTAL**  
**COMMUNICATIONS 4**

*6cp*  
Continuation of 88502.

**88603**  
**FILM AND VIDEO DESIGN 4**

*6cp*  
Continuation of 88503.

**88604**  
**ILLUSTRATION 4**

*6cp*  
Continuation of 88504.

**88605**  
**PHOTOGRAPHY 4**

*6cp*  
Continuation of 88505.

**88606****TEXTILE DESIGN 4***6cp**prerequisite: 88506 Textile Design 3*

Consolidates students' knowledge of current industrial design methods and design ability within a specialised area of textiles. Students undertake a major design project which concentrates, through research and practical application, on the role and responsibilities of the professional textile designer in society and the environment in general.

**88609****TRANSPORTATION DESIGN 4***6cp*

Continuation of 88509.

**88611****FURNITURE DESIGN 4***6cp*

Continuation of 88511.

**88612****DESIGN FOR THEATRE 4***6cp*

Continuation of 88512.

**UNDERGRADUATE COURSE REGULATIONS**

These regulations are to be read in conjunction with the University's Rules and By-law.

**UNDERGRADUATE AWARD STUDENTS**

Bachelor of Design with a major in

Fashion and Textile Design  
Industrial Design  
Interior Design  
Visual Communication

**1. AWARDS AND GRADUATION**

A student is deemed to have completed the educational requirements for the B Design course when he/she has achieved at least 192 credit points made up of:

- 1.1 146 credit points from required major studies subjects including:
  - 24 credit points for Design 1
  - 104 credit points at each of 200, 400, 500, 600 and 700 levels
  - 24 credit points from major project at 800 level;
- 1.2 24 credit points from an approved strand of Minor Studies subjects including six credit points at each of 300, 400, 500 and 600 levels;
- 1.3 16 credit points from General Studies subjects.

**2. ASSESSMENT PERIOD**

The assessment period for the Bachelor of Design is one semester.

**3. CREDIT POINT SYSTEM**

Each subject offered for credit toward the degree has a credit point value which reflects the effort normally required to complete the subject's study and other work and which provides the basis for the subject's weighting factor.

**4. MINIMUM CREDIT POINTS**

The minimum number of credit points for which a full-time student can be enrolled in a semester is 18.

## 5. MAXIMUM CREDIT POINTS

The maximum number of credit points for which a student can be enrolled in a semester is 30. This maximum may be varied with the approval of the relevant Faculty committee.

## 6. PROGRESSION

A student must obtain 18 credit points and required prerequisites by completion of subjects at one level of study before being eligible to proceed to the next level of study. This requirement may be varied with the approval of the relevant Faculty committee.

## 7. PART-TIME STUDY

Students may be permitted by the relevant Faculty committee to continue their studies on a part-time basis i.e. enrol for fewer than 18 credit points per semester. The circumstances under which part-time studies may be permitted are:

- 7.1 where a student who has completed successfully two years of study wishes to combine third and/or fourth year studies with appropriate industrial employment;
- 7.2 where a student through disability cannot carry a full-time study load;
- 7.3 where a student is denied access to subjects through failure in prerequisites and so is prevented from undertaking a full-time study load.

Application for permission to undertake studies on a part-time basis must be in the recommended form and be endorsed by the applicant's academic adviser before being lodged with the appropriate Associate Dean.

## 8. SPECIAL LEAVE

- 8.1 Students who for good reasons such as illness, family or financial difficulties or misadventure cannot attend classes and undertake assignments for a period during a semester may apply for special leave.

- 8.2 Applications for special leave must be in the recommended form and be endorsed by the applicant's academic adviser before being lodged with the appropriate Associate Dean.

- 8.3 Special leave normally is limited to four weeks' duration and students temporarily absent with or without special leave must make arrangements with the coordinating examiners responsible for the subjects in which they are enrolled to meet the requirements for assessment in those subjects.

## 9. ASSESSMENT POLICY

Student work is assessed in accordance with the assessment policy adopted and issued by the relevant Faculty committee.

## 10. OWNERSHIP OF STUDENT WORK

Under the University's Copyright Policy students generally own copyright in any work executed as part of the course in which they are enrolled except where they are working on a project governed by an agreement between UTS and a third party and agree to be bound by the terms and conditions of the relevant agreement. In such cases the terms and conditions of the agreement will prevail and the ownership of copyright will be determined accordingly. For more details refer to the section on UTS policies in the *Student Information Guide*.

However, in accordance with Rule 2.9 of the Rules Relating to Students, the University reserves the right to retain the original or one copy of any drawings, models, designs, plans and specifications, essays, theses or other work executed by a student as part of their course, or submitted for any award or competition conducted by the University without affecting any copyright or other intellectual property right that may exist in such student work.

Notwithstanding Rule 2.9 of the Rules Relating to Students, the University may have a proprietary interest in any intellectual property developed by a student in the course of his or her studies at the University using substantial institutional resources (other than the facilities of the University Library) and pre-existing intellectual property developed within the University.

The University has a Rule on intellectual property (G7), an inventions policy, a policy on copyright and guidelines for the ownership of intellectual property in relation to students, all of which are printed in full in the *Student Information Guide*. Any claim that the University may make in respect of intellectual property developed by a student will be consistent with the *Copyright Act 1968* and the relevant University policies.

In 1993 the University adopted revised 'Guidelines for the ownership of intellectual property in relation to students' under which the University acknowledges the entitlement of a student to be recognised as the first owner of any copyright which may subsist in work executed or submitted as part of the student's work within a course of study offered by the University or submitted for any award or competition conducted by the University. However, the University has the right to make copies of the work for assessment and other purposes and may also request the use of a student's work for its educational or administrative purposes in pursuance of which it may exhibit, reproduce, publish, perform, adapt or broadcast the work, subject matter or design in question. Where the University receives a financial profit from the use of a student's work, the student is entitled to equitable remuneration for its use.

## ASSESSMENT POLICY STATEMENT

This policy statement has been adopted in accordance with the University's policy on assessment. It outlines the ways in which the assessing (marking) of student work submitted during semesters and the compiling of subject assessments for students at end-of-semester is undertaken.

Successful implementation of this policy requires understanding, commitment and active participation in assessment processes by both students and staff. It is important that staff and students are familiar with the policy and that they work to ensure that assessment processes are conducted as consistently and fairly as possible.

1. Enrolment in each subject is a form of agreement between the student and the University. The basis of that agreement is the printed subject description, made available to students before their enrolment, in which the subject's general aims and outline are spelled out. The University agrees to provide the subjects as described, and to award the credit points for the subject to those students who are properly enrolled in the subject and who are assessed and found to have been successful in achieving the subject's aims.
2. An application for a variation of approved program must be completed and lodged by a student wishing to withdraw from a subject in which he/she is enrolled or to undertake a subject in which he/she is not enrolled. The application must be lodged with the Academic Registrar before the end of the fourth week of a semester. Failure to vary enrolment will result in a student being awarded failures in subjects abandoned and not being credited with results obtained in subjects entered after enrolment day.

3. A semester program for each subject is provided to students in the first class of the semester. This program provides, in more detail than the subject description, an outline of the content, staffing, teaching/learning strategies, pattern of assignments, assignment weighting and basis of assessment planned for the semester.
4. The basis for assessment is spelled out in the semester program for the subject. Semester examinations are not used as part of the assessment process.
5. Attendance and participation in classes is prerequisite to a passing assessment in all subjects. Achievement of a subject's aims becomes difficult if many lectures, seminars, tutorials or studio/workshop sessions are missed. As a general rule attendance at 80 per cent of scheduled classes is required. Attendance, however, is not in itself sufficient. Active involvement in class activities and discussions is important to learning and therefore to assessment.
6. Assignments are the tasks prescribed for students in a subject. An assignment may take the form of, say, a tutorial paper (i.e. group or individual investigation leading to a report presented in class and a documented submission), a semester paper (i.e. a group or individual investigation occupying most or all of the semester and leading to a documented submission) or a design project (i.e. the group or individual development and submission of design proposals in response to an issued brief).
7. The assignment conditions set by the subject lecturer define as necessary the submission format, the submission deadline and the assessment criteria.
8. The submission deadline is the date and time at which the assignment is due. Assignments are required to be delivered to the subject lecturer, or to the person nominated by the subject lecturer to accept submissions, before the deadline.
9. Late submissions will not be accepted. The only exceptions to this policy can occur where prior arrangements have been made with the subject lecturer. Students are strongly advised, in their own interest, to make an incomplete submission on time rather than to seek acceptance of a late submission.
10. Incomplete assignment submissions will be accepted before the deadline and will be assessed, and any students who believe themselves to have been prevented by disability or misadventure from completing an assignment may attach to their submitted work a written explanation of the circumstances preventing completion.
11. A criticism is provided to the author of each accepted assignment. This criticism usually is given by the subject lecturer in the form of a class discussion or critique, which may be supplemented by individual criticisms or reports.
12. An assessment of each accepted assignment submission is made by the subject lecturer in terms of criteria made explicit in the assignment brief or subsequently agreed. A student is entitled to receive from the lecturer details of the mark awarded and an indication of where the mark sits in the class rank order.
13. A re-submission may be allowed or encouraged by a subject lecturer to help a student to bring an assignment to a more satisfactory conclusion. The re-submission will not lead to a revised assessment for the assignment but will be considered in an end-of-semester review and can influence the subject assessment.

14. Warnings may be issued at mid-semester by the subject lecturer to students who at that stage clearly are falling below a passing standard in work completed in the first half semester. It must be emphasised that the Faculty cannot and does not undertake to advise students in advance of impending failures.
15. Advice on progress is available to students, from the subject lecturer. However it must be understood that the lecturer cannot necessarily predict the end-of-semester subject assessment in giving such advice, particularly in borderline cases, because staff members other than the lecturer are involved in determining the grades awarded in subject assessment results.
16. A coordinating examiner is appointed for each subject by the responsible program director. If the lecturer who teaches the subject is a full-time staff member he/she is the coordinating examiner. If the subject is taught by a team or by a part-time lecturer, one member of the full-time staff acts as the coordinating examiner. The coordinating examiner's task is to ensure that all eligible assignment submissions have been assessed, that assessment records are complete and available for reference and that a subject assessment in the form of a grade is proposed for every enrolled student.
17. Subject assessments are compiled by coordinating examiners, in consultation with staff teaching in the subject and with the Program Director. In the compilation of subject assessments, assignment marks are weighted to reflect the duration, importance and effectiveness, as a measure of competencies, of the various assignments. Each grade proposed is based upon a percentage score.
18. Grades which can be proposed by coordinating examiners are as follows:
- High Distinction**  
Given to a student whose work in the subject has consistently been of exceptional standard.
- Distinction**  
Given to a student who, through work of outstanding merit, has demonstrated a capacity to achieve more than the subject's aims.
- Credit**  
Given to a student who has more than met the minimum requirements of the subject and whose work has been of a standard well above average.
- Pass**  
Given to a student who has met the requirements of the subject, has demonstrated that he/she has satisfactorily achieved the subject's aims through work of average standard.
- N**  
This is a borderline case, to be resolved in discussions at the Examination Review Committee when the student's performance in all subjects can be considered. The N can become a pass, conceded pass, or a failure on the recommendation of the coordinating examiner in the light of other subject grades.
- W**  
Is a withheld result, granted in exceptional circumstances to a student who through illness or other form of incapacity has been prevented from completing a sufficient number of assignments to provide a basis for a subject assessment. This has the effect of granting the student a small extension of time, usually one week, to allow additional submissions to be made and for the examiners to complete their assessment.

**T**

Given to a student who has been granted a formal supplementary examination to be completed in the designated supplementary examination period, before a grade can be awarded.

**Y**

Indicates that the subject extends over two or more semesters and a grade is currently not available.

**Z**

Given to a student whose work shows an unsatisfactory achievement on one or more objectives of the subject, and not qualifying for the grade of conceded pass.

19. A conceded pass or R result can be awarded by the Examination Review Committee to a student, on the recommendation of a coordinating examiner. This is given to a student whose mark is just below the pass/fail boundary and for whom an N grade is proposed in the relevant subject result sheet. In any one semester a student may be awarded one conceded pass only, and in order to be granted that, must have achieved passing grades in all other subjects attempted.
20. The Assessment Standards Committee checks the collected subject assessment results. Analysis of subject results at each level is made to compare average marks and correct anomalous results. Different examiners use different marking scales and it is important that these scales be brought into line so that the value of grades awarded is made as consistent as possible across all the subjects offered. The Assessment Standards Committee may, after consultation, move grade boundaries to adjust subject results.
21. The Examination Review Committee meets to consider consolidated results. Medical and other evidence about factors affecting a student's performance plus records of absences and approved leave are mentioned for each student, N and W results are resolved and R results awarded. The across-the-board comparison of student performance is valuable in deciding borderline cases. Students who, as a result of failures, are denied access to subjects are identified. When approved and adopted by the Examination Review Committee, results become official and are released to students by the Academic Office.
22. A review of subject assessment can be sought by students who believe that they can produce evidence which should cause the University to review and alter a subject assessment. In general, a subject assessment will be reviewed in the light of evidence that:
  - assignment submissions, the mark for which should have contributed to the subject result, were not assessed;
  - assignment submissions whose marks should have contributed to the subject result were not incorporated in the subject assessment;
  - the student's temporary disability or unavoidable absence from the University, attested to by a special leave or by evidence from a medical practitioner or a University counselor, was not considered in the determination of the subject grade.

Procedures for appeal against assessment grades are published. Advice is available from the Faculty Office.



## POSTGRADUATE COURSES BY COURSEWORK

### Graduate Certificate in Design and Technology

The Graduate Certificate in Design and Technology is a part-time, full-fee-paying course of one year's duration.

#### AIM

This course is a response to the needs of school teachers who are undertaking the new curricula in the areas of Design and Technology for classes in Years 7 to 10. The course offers a broad awareness of design and technology in a social and environmental context, as well as design knowledge and skill essential for school teachers whose previous training has not equipped them for the introduction of design methodologies, processes and practical experiences, which are integral to the new curricula. The course is also of interest to those who may not be teachers, but, who are concerned with design processes and the professional practice of design.

#### QUALIFICATIONS FOR ADMISSION

To qualify for entry to the Graduate Certificate in Design and Technology an applicant shall: hold a Bachelor's degree, diploma or equivalent qualification in an appropriate area; have relevant teaching experience, or submit other evidence of general and professional qualifications which indicates that the applicant possesses the educational preparation and capacity to pursue graduate studies.

#### STRUCTURE

To qualify for the Graduate Certificate in Design and Technology, a student must achieve 24 credit points in not less than one semester of study.

Each subject has a value of four credit points. Sixteen credit points must be achieved from the core subjects; the remaining eight credit points can be

achieved from elective postgraduate subjects.

#### COURSE STRUCTURE

##### Core studies

Students must complete core subjects to the value of 16 credit points.

##### *Autumn semester*

89919<sup>2</sup> Design and Technology (4cp)

89912<sup>1</sup> Design Case Studies 1 (4cp)

89914<sup>2</sup> Design Practice 1 (4cp)

##### *Spring semester*

89104<sup>2</sup> Design and Society (4cp)

89013<sup>1</sup> Design Case Studies 2 (4cp)

89012<sup>2</sup> Design Practice 2 (4cp)

<sup>1</sup> Core subjects

<sup>2</sup> Alternative core subject

##### Electives

Students must complete electives to the value of eight credit points, drawn from the following areas.

User Studies

Technology Studies

Methodology Studies

General Studies

Design Management Studies

Design Computing Studies

See postgraduate subject descriptions.

## Graduate Diploma in Design

The Graduate Diploma in Design is a one-year full-time, or two-year part-time, postgraduate course.

### AIM

The course is about the nature and processes of design, the roles and responsibilities of designers and their profession, and the impact of design upon society.

It is particularly suited to graduates working in association with designers or managing design-based processes, as well as designers who wish to upgrade their skills and those concerned with teaching design. In consequence, the course is planned to provide a useful understanding of design, and of the methods and values of designers.

### QUALIFICATIONS FOR ADMISSION

Applicants are normally expected to possess a Bachelor's degree or an equivalent qualification in an appropriate area, or be able to submit other evidence of general and professional experience which will indicate that the applicant possesses the educational preparation and capacity to pursue graduate studies.

### STRUCTURE

To qualify for the Graduate Diploma in Design a student must achieve 48 credit points in not fewer than two semesters of study. Twenty credit points must be achieved from the core subjects. The remaining 28 credit points must be achieved from elective subjects.

## COURSE STRUCTURE

### Core studies

Students must complete core subjects to the value of 20 credit points.

#### *Autumn semester*

81920<sup>2</sup> Marketing and Design (4cp)  
89912<sup>1</sup> Design Case Studies 1 (4cp)  
89914<sup>1</sup> Design Practice 1 (4cp)

#### *Spring semester*

81020<sup>2</sup> Management Techniques and Design (4cp)  
89013<sup>1</sup> Design Case Studies 2 (4cp)  
89012<sup>1</sup> Design Practice 2 (4cp)

<sup>1</sup> Core subjects

<sup>2</sup> Alternative core subject

### Electives

Students must complete elective subjects to the value of 28 credit points, drawn from the following areas:

User Studies  
Technology Studies  
Design Management Studies  
Methodology Studies  
General Studies  
Design Computing Studies

See postgraduate subject descriptions.

## Master of Design (by coursework)

The Master of Design is a one-and-a-half-year full-time, or three-year part-time, postgraduate course.

### AIM

The Master of Design course is aimed at equipping experienced graduate designers with the specialised knowledge and abilities necessary for their successful activity as professional designers in specially demanding areas of design practice.

Project work is undertaken in the third year of the course and provides an opportunity for the student to explore an area of particular interest or professional benefit.

### QUALIFICATIONS FOR ADMISSION

To be selected for admission to the Master of Design (by coursework) an applicant normally would be required to hold a recognised four-year degree (or equivalent) in an appropriate design area, and have completed not less than two years of appropriate professional experience as a practising designer or in a design-related field, after graduation.

In exceptional circumstances, applicants who do not meet these criteria may be considered for entry on the basis of their professional and academic experience.

### STRUCTURE

Students are assisted in developing a pattern of study suited to their own needs, made up of coursework and project work.

To qualify for the Master of Design a student must achieve 72 credit points in not fewer than three semesters of study. Twenty-four credit points must be achieved from project i.e. by two semesters' successful work on an approved

project program. Twenty-eight credit points must be achieved from the core coursework subjects. The remaining 20 credit points must be achieved from an approved program of elective coursework subjects.

### COURSE STRUCTURE

#### Core studies

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Students must complete core subjects to the value of 28 credit points.

81920<sup>2</sup> Marketing and Design (4cp)  
 82901<sup>1</sup> Psychology of Design (4cp)  
 82903<sup>1</sup> Technological Change (4cp)  
 82905<sup>1</sup> Research Methods (4cp)  
 82912<sup>1</sup> Design Seminar (4cp)  
 81020<sup>2</sup> Management Techniques and Design (4cp)  
 82004<sup>1</sup> Design Decision Making (4cp)  
 82013<sup>1</sup> Research Seminar (4cp)

<sup>1</sup> Core subjects

<sup>2</sup> Alternative core subject

#### Project

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Students must complete the project to the value of 24 credit points over two semesters part-time, or one semester full-time.

89917 Design Project (P/T) (12cp)  
 89918 Design Project (F/T) (24cp)

#### Electives

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Students must complete electives to the value of 20 credit points, drawn from the following areas:

User Study  
 Technology Studies  
 Methodology Studies  
 Design Management Studies  
 General Studies  
 Design Computing Studies

See postgraduate subject descriptions.

## POSTGRADUATE SUBJECT DESCRIPTIONS

### • DESIGN STUDIES

#### 82912<sup>1</sup>

##### DESIGN SEMINAR

4cp

Identifies and discusses contemporary issues in design theory and practice to help in selecting suitable topics for Master's projects.

#### 89012<sup>1</sup>

##### DESIGN PRACTICE 2

4cp

Continues on from Design Practice 1 and provides an understanding of the designer/client interface in environmental and industrial design. Students undertake two individual research and design projects.

#### 89013<sup>1</sup>

##### DESIGN CASE STUDIES 2

4cp

A continuation of 89912 Design Case Studies 1.

#### 89104<sup>1</sup>

##### DESIGN AND SOCIETY

4cp

Develops issues raised in Design and Technology by examining the responsibility of design in society and the education process. It covers the implications of technological change in the context of the wants and needs of society. Focusing on project briefing, evaluation, feedback and assessment as affecting both groups: teacher/client; student/design; market/user.

#### 89912<sup>1</sup>

##### DESIGN CASE STUDIES 1

4cp

Covers forms of design practice; the design processes used in the solution of

a broad range of design problems; the values employed by designers in their work and the means by which designs are evaluated. Areas addressed may include town planning, landscape design, architecture, interior design, fashion, textile, industrial, film and television production, graphic design, exhibition design. Lectures involve practising designers, focusing on their professional roles, responsibilities and methods.

#### 89914<sup>1</sup>

##### DESIGN PRACTICE 1

4cp

Covers design methods and techniques of research, decision making and evaluation involved in the practice of design and of the designer/client interface. Students work together with a designer in the development of a design proposal in the area of exhibition or environmental design or the manufacturing or communication industry. Students undertake two individual research and design projects.

#### 89917<sup>1</sup>

##### DESIGN PROJECT (P/T)

12cp

Program of individual supervised research or design activity undertaken by each student.

Assessment on submission of an original body of work. Usually four elements or phases: research, development, evaluation and report. Research, new product development, packaging, pricing, promotion, advertising, product image, test marketing, strategies and tactics for existing products, services and societal marketing, legislation, consumerism.

#### 89918<sup>1</sup>

##### DESIGN PROJECT (F/T)

24cp

As for 89917 Design Project (P/T).

**89919<sup>1</sup>****DESIGN AND TECHNOLOGY**

4cp

Provides the knowledge and skills integral to the understanding of the processes and practice of design. The content will cover design elements, contextual studies, communication and design methodology. The application of design methodologies to the classroom will be considered.

<sup>1</sup> Core subjects for some courses.

- **USER STUDIES**

Subjects in the User Studies area provide knowledge of the means by which the needs, wants and preferences of the users of objects, environments and messages are identified and assessed.

**82009****HUMAN FACTORS AND DESIGN**

4cp

Provides an understanding of the physiological, psychological and social factors pertinent to the successful interaction of humans, environments and machines in a range of contemporary work situations.

**82901<sup>1</sup>****PSYCHOLOGY OF DESIGN**

4cp

Covers aspects of psychology especially relevant to design practice. Lectures and seminars are conducted on relevant examples and case studies to develop insights into: the fundamentals of human perception; non-verbal communication; human behaviour in small-scale environments such as workplaces and domestic situations; human behaviour in large-scale environments such as towns and cities.

**82902****SOCIOLOGY OF DESIGN**

4cp

Provides sociological perspective and social definition of the designer, an understanding of the designer's role in contemporary society and the social uses of design.

<sup>1</sup> Core subject for some courses.

- **TECHNOLOGY STUDIES**

Subjects in the Technology Studies area provide knowledge of the established and emerging technologies with which designers must deal.

**81021****COMMUNICATION TECHNOLOGY**

4cp

Provides an understanding of the current state of communication theory and practice with particular reference to the designer's role in shaping components of communication systems.

**82015****APPROPRIATE TECHNOLOGY**

4cp

Develops an awareness of the social linkages of technology (environmental, social, psychological, legal, ethical, health and safety, economic, institutional), the form of these linkages today and opportunities for the future. Presented through lectures and student discussions which focus on different aspects of the technology/society interface, using contemporary issues where possible.

**82903<sup>1</sup>****TECHNOLOGICAL CHANGE**

4cp

Provides an appreciation of political/economic/social influence on technological change and the processes developed to foster technological change. Particular emphasis is given to the Australian situation.

• **DESIGN MANAGEMENT STUDIES**

Subjects in the Design Management Studies area provide knowledge of managerial structures and methods by which organisations and activities, in particular design and production, are directed and controlled.

**81020<sup>1</sup>**

**MANAGEMENT TECHNIQUES AND DESIGN**

4cp

Provides a working knowledge of the range of management skills and techniques used in the planning and control of design projects. Consists of a series of seminars/tutorials, case studies and assignments concerned with such topics as task scheduling; planning systems and control models; program evaluation and review techniques; critical path monitoring; organisation development, personnel recruitment and staffing structures, organisational models, union and labour relations.

**81920<sup>1</sup>**

**MARKETING AND DESIGN**

4cp

Provides a working knowledge of the concept of marketing, and an understanding of the problems faced by management in achieving marketing success. Consists of a series of seminar/tutorials including case studies concerned with such topics as market segmentation, market research, new product development, packaging, pricing, promotion, advertising, product image, test marketing, strategies and tactics for existing products, services and societal marketing, legislation, consumerism.

**81921**

**INNOVATION, MANAGEMENT AND DESIGN**

4cp

Provides an understanding of innovation, its place in the planning and

management of commercial and industrial firms, and the role of the designer in innovation and processes of change. Consists of a series of seminars/tutorials and case studies concerned with such topics as development of new products and services, research/development/marketing/production interfaces, managing technological change, planning models and techniques, predictive models.

<sup>1</sup>Core subject for some courses.

• **METHODOLOGY STUDIES**

Subjects in the Methodology Studies area provide knowledge of the means by which design decisions and design research activities are carried out.

**82004<sup>1</sup>**

**DESIGN DECISION MAKING**

4cp

Provides an understanding of the ways in which individuals and groups make and implement decisions regarding policies and actions, with particular reference to design decisions. Lectures, seminars and tutorials undertaken are concerned with such issues as thought and decision making; overt and intuitive decision making; defining problems and developing appropriate decision-making strategies; scientific methods, logic and the rational decision-making model.

**82013<sup>1</sup>**

**RESEARCH SEMINAR**

4cp

Gives students an understanding of the role and incentive for research in areas associated with design and enables students to assist each other in early development of research projects. A series of lectures and student presentations.

**82905<sup>1</sup>****RESEARCH METHODS***4cp*

Gives an understanding of the methods of research. Combines lectures with opportunities for first-hand experience. Lectures include choosing a topic, fact finding, assessment of information, problem definition and bounding, problem solving, project planning, forecasting and report writing. This is supplemented by practical sessions in the use of a major research library and especially its resources (abstracts, indices, computer databases), and problem solving (synetics, brainstorming).

<sup>1</sup> Core subject for some courses.

**• GENERAL STUDIES**

Subjects in the General Studies area provide knowledge of relevant aspects of history and contemporary culture. Students may be granted approval to undertake suitable postgraduate subjects offered by other faculties and universities as general studies.

**81025****DESIGN HISTORY***4cp*

Gives a historical perspective on design and designers. Lectures, seminars and tutorials are undertaken concerned with such topics as style, artifacts, communications, environment and culture and group studies on different aspects of the technology/society interface.

**82014****SPECIAL STUDIES 2***4cp*

A continuation of 82913 Special Studies 1 for advanced investigation of a design topic.

**82016****GRAPHIC VISUALISATION***4cp*

Expands the awareness and ability of students with other disciplinary backgrounds to generate ideas and communicate through 'hands-on' experience.

**82017****2D AND 3D COMMUNICATION***4cp*

This subject introduces methods and conventions to explain design intentions through three-dimensional model forms and two-dimensional drafting techniques and processes.

**82913****SPECIAL STUDIES 1***4cp*

Provides the opportunity for postgraduate students to pursue, as individuals, topics of interest or concern within any field of design.

**82914****PHOTOGRAPHY AND VIDEO***4cp*

This subject introduces students to photography and video for the documentation of 'authentic' information and communication of ideas.

**82915****PHOTOGRAPHY FOR DESIGNERS***4cp*

This subject introduces students to photography and its applications to enhance the communication of design projects.

**82916****VIDEO FOR DESIGNERS***4cp*

This subject introduces students to the use of video and its applications for the communication of design ideas.

• DESIGN COMPUTING STUDIES

Several strands of design computing are offered to give opportunities to develop skills relevant to the needs of particular professions.

**81022**

**DESKTOP PUBLISHING**

4cp

This subject provides a working knowledge of microcomputer applications of particular relevance to design. A series of lectures and seminars/tutorials are undertaken concerned with providing a working knowledge in the use of Macintosh microcomputers for a range of applications such as word processing, desktop publishing, scanning and graphics.

**81024**

**COMPUTER GRAPHICS 1**

4cp

Provides to selected postgraduate students the opportunity to apply computer techniques to specific design projects using advanced graphics/animation programs.

**81030**

**3D COMPUTER ANIMATION 2**

4cp

Develops and expands the basic knowledge of both the theory and operation of computer animation as learnt in 81925 3D Computer Animation 1 refining the different types of computer graphics in animation. The course includes the creation and manipulation of 3D images. Topics covered include advanced computer animation systems and theory, various animation software applications and video production techniques.

**81840**

**ADVANCED COMPUTER-AIDED DESIGN**

4cp

Provides a theoretical background and working experience in computer-aided design (CAD) and computer graphics systems. A series of lectures and seminars on developments in CAD programs and computer graphics and projects giving direct experience of complex systems.

**81922**

**COMPUTER-AIDED DESIGN**

4cp

Provides a theoretical background and some working experience in computer-aided design (CAD) and computer graphics systems. A series of lectures and seminars on recent developments in CAD and computer graphics and projects giving direct experience of typical systems.

**81923**

**INTRODUCTION TO DESIGN COMPUTING**

4cp

Provides a working knowledge of the principles and applications of computer graphics to problem solving. The graphics techniques will include paintbrush systems, typography and spreadsheets. Projects provide an introduction to microcomputers, graphics and word-processing software packages.

**81924**

**COMPUTER GRAPHICS 2**

4cp

This subject aims to give selected students who have attained appropriate experience in computer graphics and design skills the ability to understand and operate high-end computer graphics and design programs. Students will be set a variety of projects and they will be required to undertake a wide range of computer programs. They will also be



encouraged to develop their imagination, creativity and conceptual depth. The studio/design format of the class will be supported by visits to computer graphics agencies and in-class workshops with practising computer graphics designers.

## **81925**

### **3D COMPUTER ANIMATION 1**

*4cp*

Equips students with the basic knowledge of both the theory and operation of computer animation and the different types of computer graphics. Topics covered include computer animation systems, animation software, animation production and dropping animation to videotape.

Not all subjects are available at all times as they are subject to timetabling and the availability of resources.

## **POSTGRADUATE COURSE REGULATIONS**

These regulations are to be read in conjunction with the University's Rules and By-law.

### **1. AWARD AND GRADUATION**

A student is deemed to have completed the educational requirements for an award when he/she has achieved:

- 1.1 in the case of the Graduate Certificate in Design and Technology  
16 credit points from required core subjects  
8 credit points from elective subjects;
- 1.2 in the case of the Graduate Diploma in Design  
20 credit points from required core subjects  
28 credit points from elective subjects;
- 1.3 in the case of the Master of Design (by coursework)  
28 credit points from required core subjects  
20 credit points from elective subjects  
24 credit points from an approved project and has submitted in a format according to the requirements of Appendix A, two copies of a record of his/her project work.

### **2. ASSESSMENT PERIOD**

The assessment period is one semester.

### **3. CREDIT POINT SYSTEM**

Each subject offered for credit toward an award has a credit point value which reflects the effort normally required to complete the subject's study and other work and which provides the basis for the subject's weighting factor.

#### 4. MINIMUM CREDIT POINTS

The minimum number of credit points for which a student can be enrolled in a semester is:

- 4.1 in the case of the Graduate Certificate in Design and Technology, 8 credit points;
- 4.2 in the case of the Graduate Diploma in Design, 16 credit points;
- 4.3 in the case of the Master of Design (by coursework), 16 credit points.

#### 5. MAXIMUM CREDIT POINTS

The maximum number of credit points for which a student can be enrolled in a semester is:

- 5.1 in the case of the Graduate Certificate in Design and Technology, 24 credit points;
- 5.2 in the case of the Graduate Diploma in Design, 32 credit points;
- 5.3 in the case of the Master of Design (by coursework), 32 credit points.

#### 6. SPECIAL LEAVE

- 6.1 Students who for good reasons such as illness, family or financial difficulties or misadventure cannot attend classes and undertake assignments for a period during a semester may apply for special leave.
- 6.2 Applications for special leave must be in the recommended form and be endorsed by the applicant's academic adviser and/or the program director before being lodged with the appropriate Associate Dean.
- 6.3 Special leave normally is limited to four weeks' duration. Students temporarily absent with or without special leave must make arrangements with the coordinating examiners responsible for the subject in which they are enrolled to meet the requirements for assessment in those subjects.

#### 7. ASSESSMENT POLICY

Student work is assessed in accordance with the assessment policy adopted and issued by the Faculty Board.

#### 8. OWNERSHIP OF STUDENT WORK

Students as part of their course requirements produce items of work which are the subject of assessment.

- 8.1 All intellectual property rights in such items of work are vested in the student who authored the work, subject to the limitations on ownership and use set out in paragraphs 8.3 and 8.4 below. Accordingly the student will own outright the work itself together with all intangible rights which might apply to the exploitation of that work.
- 8.2 Where students are engaged as part of their course requirements in the creation of works for third party commissions the party commissioning that work may negotiate rights to reproduce, copy or implement a student's design or make and sell that design. Students should seek advice in order to protect their rights and interests in such cases.
- 8.3 While the student is the owner of copyright in any original work or design, the University has the right to make copies for assessment and other purposes and may request the use of a student's work for its educational or administrative purposes.
- 8.4 During the calendar year in which an item or work is produced in satisfaction of course requirements, the student who is author of the work may exhibit, publish or reproduce the work provided all course requirements have been satisfied beforehand and provided no reference is made to the University or the student's association with the University without the prior written approval of the Academic Registrar.

## Appendix A

### RECORD OF PROJECT WORK – MASTER OF DESIGN (BY COURSEWORK)

#### 1. RECORD OF PROJECT WORK

Two copies of a full documentary record of a candidate's project shall be submitted in the approved format.

#### 2. VOLUME

Where the format of the record is a bound volume the following requirements apply:

- |     |   |        |   |
|-----|---|--------|---|
| 2.1 | The volume shall be compiled in accordance with the guidelines issued.  | 2.8    | Beginning with the first page of the Introduction (or Chapter One if there is no separate introduction), pages shall be numbered consecutively, using Arabic numerals.  |
| 2.2 | The title page shall contain the volume title, author's name, degree, and year of submission.   | 2.9    | Except with the approval of the supervisor, illustrations, charts, tables etc. shall be bound with the text, immediately after the first reference to them, as right-hand pages with the caption at the bottom or if necessary on the page facing the figure. |
| 2.3 | All copies of the volume shall be in good quality typescript on one side of the paper only. In the main body of the volume one-and-a-half spacing is preferred, but double spacing may be used only for appendices and footnotes. | 2.10   | Diagrams, maps tables etc. which exceed A4 size shall be either:<br>(1) folded so as to read as a right-hand page when opened;<br>(2) clearly referenced in the text, numbered and folded for insertion in a pocket in the back cover of the volume binding.  |
| 2.4 | The paper used shall be good quality, medium weight, opaque white stock and the form of reproduction shall be original typescript, offset printing of high grade dry photocopy.   | 2.11   | All loose material shall be clearly marked with the author's name, the volume title and the degree for which it is submitted.   |
| 2.5 | The size of paper shall be ISO paper size A4 (297 mm x 210 mm) except for illustrative material on which no restriction is placed.  | 2.12   | Each copy of the volume submitted shall be bound in boards covered with buckram or similar material and embossed on the spine as follows:   |
| 2.6 | The margin on each sheet shall be not less than 40 mm on the left-hand side, 20 mm on the right-hand side, 20 mm at the top and 30 mm at the bottom.  | 2.12.1 | Reading from the bottom as follows: 90 mm, UTS, year of submission, M. Design, name of student.   |
| 2.7 | Each copy of the volume shall have an abstract of not more than 400 words bound in immediately after the title page.  | 2.12.2 | Evenly spaced between the statement in (2.12.1) and the top of the spine, the initials and surname of the author. No other lettering or decoration shall appear on the spine; or  |
|     |   | 2.12.3 | Where the spine of the thesis is too narrow to support lettering across, the wording shall be written along the spine reading from top to bottom in all cases.  |
|     |   | 2.13   | The cover of the volume shall be dark blue and the letter shall be gold.  |

### 3. ACCESS TO RECORD OF PROJECT WORK

- 3.1 The original or best copy, if there is a difference in quality of the copies, shall be deposited with the University Library.
- 3.2 (a) The copy deposited with the University Library will be available for consultation, loan, or copying at the discretion of the University Librarian, unless the University, on the application of the candidate, determines that it shall not be available until after the expiry of a period, which period shall not normally exceed two years.
- (b) The University Librarian shall require each user and recipient of a copy of a volume to undertake in writing to respect the author's rights under the law relating to copyright.
- (c) Candidates for a Master's degree may, when they lodge a record containing restricted or confidential information which the candidate does not desire to be disclosed freely, request that it be released to other persons only on the authorisation of the Academic Registrar in consultation with the Dean.
- (d) Where the record contains material which the candidate considers should have restricted distribution the Dean shall be informed which parts are classified. If further precautions are required such as more secure transmission than registered post the costs will be borne by the candidate.
- (e) Where a candidate states that a record contains confidential information which the candidate does not desire to be disclosed freely, the candidate may, to the extent that it is possible, place that information in an appendix to the record.
- (f) The University Librarian shall not disclose to any person an appendix where the candidate states that the appendix contains restricted or confidential information, unless the Academic Registrar in consultation with the Dean has authorised such disclosure.

## PROGRAMS IN ARCHITECTURE

The undergraduate program in Architecture offers the student the unique opportunity to study simultaneously in both the workplace and University, through its partnership with the profession. Postgraduate offerings by coursework aim to extend the intellectual development of the student from the foundations laid down in the undergraduate course.

### UNDERGRADUATE COURSES

From 1996 onwards, a new degree structure will be introduced, replacing the existing Bachelor of Architecture award, and offering students a choice of four degree programs.

### Pass Degree of Bachelor of Arts (Architecture)<sup>1</sup>

The first degree, Bachelor of Arts (Architecture), is of four years' duration. Year 1 is undertaken via full-time study whilst Years 2, 3 and 4 are undertaken as part of a co-operative education program. Upon completion students may proceed to a range of career options directly; they may pursue further study in the BArch/MArch program; or may proceed to alternative postgraduate study in a variety of specialisation e.g. MBA, MPlan etc.

<sup>1</sup> Nomenclature subject to approval

### Honours Degree of Bachelor of Arts (Architecture)

The first degree may also be undertaken as an Honours degree. Years 1 and 2 are as for the Pass degree, with students electing to undertake additional Honours subjects in Years 3 and 4. Year 3 will be conducted as part of a co-operative education program; Year 4 will be full-time.

### Bachelor of Architecture (with Honours)

The Bachelor of Architecture is a professional degree i.e. a qualification accepted for professional membership of the Royal Australian Institute of Architects and for professional registration under the provision of the *Architects Act* administered by the Board of Architects of NSW.

Upon successful completion of the Bachelor of Arts (Architecture) at either pass or Honours level, students will be automatically accepted into the Bachelor of Architecture program which is undertaken as part of a co-operative education program over two years.

The Bachelor of Architecture may be awarded as a pass degree or with Honours.

### Master of Architecture

The Master of Architecture is also a professional degree of two years full-time or three years part-time duration. The program comprises all the requirements for the Bachelor of Architecture degree, plus additional subjects.

The Master of Architecture may only be taken after the completion of the Honours degree of Bachelor of Arts (at 1 or 2.1 level) or an award from another institution deemed to be equivalent.

It is intended that the new course will be introduced into Years 1, 2, and 3 in 1996. Therefore students admitted in 1995 will undertake the first year of the 'old' BArch program. Upon successful completion of this year, students will then proceed to Year 2 of the new course – Bachelor of Arts (Architecture).

**Full details of the new courses are available from the Faculty Office: telephone (02) 330 8947 or fax (02) 330 8877.**

The following information relates to the old course only.

**COURSE STRUCTURE (1995 ONLY)**

Credit points are given in brackets.

**Year 1**

- 11011 Construction 1 (5cp)
- 11012 Design 1 (10cp)
- 11013 Materials and Systems (5cp)
- 11014 Contextual Studies 1A (3cp)
- 11015 Contextual Studies 1B (3cp)
- 11016 Contextual Studies 1C (3cp)
- 11017 Services 1 (3cp)
- 13998 Architectural Experience

**Year 2**

- 11021 Construction 2 (7cp)
- 11022 Design 2 (10cp)
- 11023 Structural Analysis 1 (3cp)
- 11024 Contextual Studies 2A (3cp)
- 11025 Contextual Studies 2B (3cp)
- 11026 Contextual Studies 2C (3cp)
- 11027 Services 2 (3cp)
- 13998 Architectural Experience

**Year 3**

- 11031 Construction 3 (5cp)
- 11032 Design 3 (10cp)
- 11033 Structural Analysis 2 (3cp)
- 11035 Contextual Studies 3B (3cp)
- 11036 Contextual Studies 3C (3cp)
- 11037 Services 3 (8cp)
- 13998 Architectural Experience

**Year 4**

- 11042 Design 4 (10cp)
- 11043 Structural Design (5cp)
- 11045 Contextual Studies 4B (3cp)
- 11046 Contextual Studies 4C (3cp)
- 11047 Services 4 (3cp)
- 11048 Architectural Practice 1A (3cp)
- 11049 Architectural Practice 1B (5cp)
- 13998 Architectural Experience

**Year 5**

- 11052 Design 5 (11cp)
- 11055 Contextual Studies 5B (5cp)
- 11056 Contextual Studies 5C (5cp)
- 11058 Architectural Practice 2A (3cp)
- 11059 Architectural Practice 2B (3cp)
- 11071 Elective Project (5cp)
- 13998 Architectural Experience

**Year 6**

- 11062 Design 6 (11cp)
- 11066 Elective Studies (8cp)
- 11068 Architectural Practice 3A (5cp)
- 11069 Architectural Practice 3B (3cp)
- 11071 Elective Project (5cp)
- 13998 Architectural Experience

**POINT SCHEME****Architectural experience**

An integral component of the Architecture course is practical work experience which is acquired concurrently with academic study. Approved work experience is a pre-condition of the award of the degree. Generally it takes approximately four years for a student to accumulate sufficient points as detailed below.

All students are required to enrol in the subject 13998 Architectural Experience and gain points for their experience. A student must gain a total of 60 points in order to satisfy the practical experience requirements for graduation. A student must also gain the following minimum number of points at various stages in the course in order to be eligible for progression:

- Entry to Year 3 – 15 points
- Entry to Year 5 – 35 points
- Entry to Year 6 – 50 points

Students are required to record their practical experience in the log book of the Architects Accreditation Council of Australia, and these log books and work experience sheets must be submitted each year by all students. Students who do not submit log books by the dates set down on the noticeboard will have a failure recorded in the subject.

Students who have gained 60 points or more and have had this verified are not required to submit log books.

Log books may be obtained from the Faculty office.

Students who have been granted advanced academic standing may also be eligible for an allowance of points in respect of approved practical experience acquired prior to enrolment in the course.

**Table I Allocation of Points**

Employment category— (EC)	Weighting factor— (W)	Maximum points allowed— (MP)
(EC)	(W)	(MP)
1. Not architectural	0.1	9
2. Architectural employee (refer to log book for details of level)		
Level A	0.2	24
Level B	0.3	24
Level C	0.4	Unlimited
Level D	0.5	Unlimited
Level E	0.6	Unlimited
3. Self employed with architect adviser		
Level B or C	0.2	30
Level D	0.3	30
Level E or F	0.5	30
4. Self employed in architectural capacity without architect adviser	0.3	24

## UNDERGRADUATE SUBJECT DESCRIPTIONS

### Guide to subject descriptions

The subject descriptions shown below indicate the subject code and name, the number of credit points for the subject (e.g. 3cp), the duration of the subject, indicated as semester weeks, if applicable, and the number of formal contact hours each week (e.g. 4 hpw); for some subjects, there may also be practical components off-campus, and this is indicated in the text. Also shown are the prerequisites and/or corequisites, if any, and a brief outline of the content.

Prerequisites are subjects which must be completed before taking the subject to which they refer. Corequisites are subjects which must be completed before or be taken concurrently with the subject to which they refer.

### 11011

#### CONSTRUCTION 1

*5cp; 2hpw*

The nature of buildings as interlocking systems and subsystems. The production of buildings: traditional, rationalised, component and systems building. Authorities controlling building. Site investigation, survey instruments and methods.

An introduction to small-scale (domestic) building construction by detailed examination of function, forms, materials, methods, costs and detailing on an elemental basis.

### 11012

#### DESIGN 1

*10cp; 4hpw*

Introduction to design processes. Development of graphic communication skills and model making. Anthropometrics, site analyses, design exercises.

**11013****MATERIALS AND SYSTEMS***5cp; 2hpw*

Identification, classification and testing of soils. Elements of materials science: relationship between structure and properties. Concepts of stress, strain, yield and fracture strengths for timber, steel, concrete, masonry, rubbers and plastics. Functions of the structural system. Examination of structural forms, action and behaviour by load path analysis. Posts and beams, arches, planar and three-dimensional frames, load transfer and jointing methods.

**11014****CONTEXTUAL STUDIES 1A***3cp; 1hpw*

An introduction to the study of the natural physical environment as it affects the human habitat.

**11015****CONTEXTUAL STUDIES 1B***3cp; 1hpw*

An introduction to the nature and study of architectural histories; general overview of the development of world architecture; place, form and culture.

**11016****CONTEXTUAL STUDIES 1C***3cp; 1hpw*

An introduction to design and design thinking. Principles of thinking, reasoning and argument. Introduction to problems and problem solving. Introduction to criticism. Research and library skills.

**11017****SERVICES 1***3cp; 1hpw*

An introduction to design and design thinking. Principles of thinking, reasoning and argument. Introduction to problems and problem solving. Introduction to criticism. Research and library skills.

**11021****CONSTRUCTION 2***7cp; 3hpw*

*prerequisites: 11011 Construction 1, 11013 Materials and Systems*

Extended examination of small-scale building construction, developing into a detailed examination of more complex forms: wall and roof framing for small buildings, external cladding systems, internal linings and finishes. Windows, doors, glass, glazing, cabinet work and hardware. Basement construction. Roofing systems.

**11022****DESIGN 2***10cp; 4hpw*

Development of design processes and languages. Relationship of human activities, construction systems and building ecologies.

**11023****STRUCTURAL ANALYSIS 1***3cp; 1hpw*

Introduction to mathematics for structural design purposes: calculus, coordinate geometry, trigonometry; the concepts and conditions of static equilibrium, resolution forces, bending moments, centroids; algebra and its application to structural theory.

**11024****CONTEXTUAL STUDIES 2A***3cp; 1hpw*

A study of human ecology related to the emergence and development of the city. Evolution of cultures and social practices and their relationship to settlement patterns.

**11025****CONTEXTUAL STUDIES 2B***3cp; 1hpw*

Presentation of aspects of architectural history with reference to design concepts and theoretical models drawn from both historic and contemporary works.



**11026****CONTEXTUAL STUDIES 2C***3cp; 1hpw*

Design and design thinking continued. An introduction to the literature of creativity; precedence of product; novelty; the problem of foreknowledge; modelling the creative process. Design thinking and the possibility of method. Criticism and architecture; types of criticism; the political and ethical responsibility of the critic.

**11027****SERVICES 2***3cp; 1hpw*

The provisions of thermal comfort by means of passive and active services, fundamentals of thermal comfort, effects of temperature, humidity, air velocity. Principles of airconditioning and ventilation, systems and equipment. Principles of passive design.

**11031****CONSTRUCTION 3***5cp; 2hpw**prerequisite: 11013 Materials and Systems*

Load-bearing masonry, multistorey. Concrete materials and methods: normal and prestressed reinforced concrete construction and floor systems. Structural steel materials and methods: low- and high-rise frames, jointing and detailing. Patent structural/construction systems. Alternate systems: grids, nets, shells, domes, membranes and air supported structures. Footings for large buildings, piles and pile caps. Internal subdivision of more complex buildings. Facade elements including precast concrete, in situ concrete, curtain walls. Communication of design intent: documentation systems, dimensional coordination, specifications and scheduling. Administration of the building process: introduction to network diagrams and time scheduling, builders' plant and site organisation, materials handling as a constraint on construction and design decisions.

**11032****DESIGN 3***10cp; 4hpw*

Application of design theory to the resolution of planning relationships, structure construction, services, environment and human needs to the design of buildings.

**11033****STRUCTURAL ANALYSIS 2***3cp; 1hpw**prerequisite: 11023 Structural Analysis 1*

An examination of statistically determinate structures; conditions of equilibrium, determination of reactions, shear and axial forces, bending moments; conditions for maximum moment. Review of centroids and extension to the second moment of area. Determination of deflection of beams by integration and use of formulae. Wind loads on buildings, theory of wind derived from fluid mechanics and application of the Wind Code to particular buildings.

**11035****CONTEXTUAL STUDIES 3B***3cp; 1hpw*

Presentation of aspects of architectural history with reference to design concepts and theoretical models drawn from both historic and contemporary works.

**11036****CONTEXTUAL STUDIES 3C***3cp; 1hpw*

The dynamics of social change, especially with reference to changing patterns of urbanism.

**11037****SERVICES 3***8cp; 3hpw*

Specialised design practices applied to lighting, acoustics, sound isolation, electrical and vertical transport systems.

Hydraulics: water supply for domestic and commercial purposes, plumbing, soil and waste installations, and sprinkler hydraulics.

### **11042**

#### **DESIGN 4**

*10cp; 4hpw*

Continuation of the objectives of 11032 Design 3 into more complex buildings.

### **11043**

#### **STRUCTURAL DESIGN**

*5cp; 2hpw*

*prerequisites: 11033 Structural Analysis 2, 11031 Construction 3*

Structural design of beams, columns, trusses, frames and slabs in timber, steel and reinforced concrete as appropriate. System selection, member calculation and constructional method related to design project. Model analysis and testing.

### **11045**

#### **CONTEXTUAL STUDIES 4B**

*3cp; 1hpw*

Presentation of aspects of architectural history with reference to design concepts and theoretical models drawn from both historic and contemporary works.

### **11046**

#### **CONTEXTUAL STUDIES 4C**

*3cp; 1hpw*

Regional and urban planning issues in the social context and an examination of planning decisions, their bases and implications. Urban sociology.

### **11047**

#### **SERVICES 4**

*3cp; 1hpw*

Examination of the envelope of the building in detail with respect to thermal performance, daylight performance and urban planning considerations of daylight and sunshine/shade.

### **11048**

#### **ARCHITECTURAL PRACTICE 1A**

*3cp; 1hpw*

Law and management: (i) a background to statute and common law and the operative legal systems, together with the laws of torts, contracts and agency, and their implications for architectural practice; (ii) an introduction to management theory and the processes of forecasting, organising, planning, motivating, controlling, coordinating and communicating.

### **11049**

#### **ARCHITECTURAL PRACTICE 1B**

*5cp; 2hpw*

Estimating and cost control: (i) methods available to architects for establishing estimates at the briefing, schematic, design development and documentation phases of a project; the detailed base of estimating small projects and cost variations; (ii) parameters of cost planning and elemental analysis, their use in design and documentation stages and the development of final cost analysis.

### **11052**

#### **DESIGN 5**

*11cp; 4hpw*

Design exercises relating to large span buildings. Urban design exercises.

### **11055**

#### **CONTEXTUAL STUDIES 5B**

*5cp; 2hpw*

Introduction to concepts and the practice of urban design. History, planning processes, urban structure and form, residential, commercial and public building infrastructures.

### **11056**

#### **CONTEXTUAL STUDIES 5C**

*5cp; 2hpw*

Choice from a range of alternative seminar programs dealing with key issues affecting contemporary architecture e.g. contemporary theory; energy; environmental issues.

**11058****ARCHITECTURAL PRACTICE 2A***3cp; 1hpw*

Law and ethics: aspects of partnership, company law, taxation, insurances and the law of master and servant, trade practice, the *Architects Act* and professional ethics.

**11059****ARCHITECTURAL PRACTICE 2B***3cp; 1hpw*

Financial management of architectural practices and of architectural projects, including relevant operations research.

**11062****DESIGN 6***11cp; 4hpw*

Development and presentation of a design thesis embodying all aspects of the design process and the achievement of buildings within the physical cultural environment.

**11066****ELECTIVE STUDIES***8cp; 3hpw*

Choice from a range of alternative seminar programs dealing with key issues affecting contemporary architecture e.g. contemporary theory; energy; environmental issues.

Subject to the approval of the Head of School, this subject may be taken in Year 5 or 6 either separately or parallel with 11071 Elective Project.

**11068****ARCHITECTURAL PRACTICE 3A***5cp; 2hpw*

Building contracts: seminars on the legal base of the provisions of building contracts. Comparisons between forms of contract in current usage and their administration, with case studies of practice situations.

**11069****ARCHITECTURAL PRACTICE 3B***3cp; 1hpw*

Marketing: theory and practice related to architectural practice.

**11071****ELECTIVE PROJECT***5cp; 2hpw*

Written dissertation on selected topic: an independent study approved and supervised by staff on an aspect of architecture.

**13998****ARCHITECTURAL EXPERIENCE***3hpw*

Students are required to accumulate at least the equivalent of 192 weeks of approved professional experience concurrently with their studies, and must satisfy the requirements of the Faculty Board in the relevant Experience subject, as determined from time to time, in order to graduate.

## PROFESSIONAL MEMBERSHIP IN THE ROYAL AUSTRALIAN INSTITUTE OF ARCHITECTS

Students enrolled in the Bachelor of Architecture Course are eligible to become student members of the Royal Australian Institute of Architects, and are encouraged to do so. Student membership may be retained by graduates for a period of 12 months.

Application details may be obtained from the Secretary, NSW Chapter, RAI A, 'Tusculum', 3 Manning Street, Potts Point 2011, telephone 356 2955.

The annual student membership subscription is approximately \$35. Student members receive the Institute's journal *Architecture Australia*.

Student participation is actively sought by the Institute, particularly as members of the various committees and working groups. The RAI A noticeboard in the School displays programs of RAI A activities and the monthly bulletins.

The requirements for Associate membership include:

- (i) a degree in a recognised course of study i.e. BArch (UTS);
- (ii) a minimum of two years' approved practical experience, at least one of which must be obtained after completing the course leading to the degree.

In the later years of their course students should check the categories of practical experience required for registration as an architect. If registration is to be sought 12 months after graduation, students should seek practical experience involving a reasonably high level of responsibility.

## REGISTRATION REQUIREMENTS

Architects are required to be registered under the provisions of the *Architects Act*, administered by the Board of Architects of New South Wales. The essential requirements for registration include:

1. a degree in a recognised course of study i.e. BArch (UTS);

2. a minimum of two years' approved practical experience, at least one of which must be obtained after completing the course leading to the degree;
3. approved practical experience in a number of categories, and some experience at a professional level;
4. details of practical experience recorded in an approved log book (i.e. AACA log book) with entries at maximum intervals of three months;
5. a pass in an examination in Architectural Practice, such as the AACA Examination conducted by the Board of Architects of NSW on behalf of the Architects Accreditation Council of Australia. A prerequisite to the examination is the completion of the periods of practical experience.

Further information is available from the Registrar, Board of Architects of NSW, 'Tusculum', 3 Manning Street, Potts Point 2011, telephone 356 4900.

## UNDERGRADUATE COURSE REGULATIONS – BACHELOR OF ARCHITECTURE

These regulations should be read in conjunction with the University's Rules and By-Law:

1. The Architecture Examination Review Committee, in making its decisions, shall take into consideration the student's performance in all subjects and may concede a pass in an individual subject.
2. On the recommendation of the Architecture Examination Review Committee, the Faculty Board may in exceptional circumstances exempt a student from the Rules relating to progression.
3. The year in these regulations is defined as the program for a year shown in the current edition of the Faculty Handbook.
4. A student who fails a Design or Construction subject in any year will normally be required to repeat

and pass the subject failed before progressing to the next year.

5. Notwithstanding regulation 4 a student in any year may be permitted at the discretion of the Architecture Examination Review Committee:
  - (i) to undertake one or more subjects from the following year; or
  - (ii) in exceptional cases where the Architecture Examination Review Committee is satisfied as to the resultant workload in relation to the student's capacity and commitments, to carry the subject or subjects in the next year.
6. (a) The Architecture Examination Review Committee may delegate its powers to the Portfolio Review Committee in respect of the subjects Design 1-6, and shall make available to the Portfolio Review Committee any extenuating evidence which it has relating to a student's performance. The Portfolio Review Committee shall indicate to the Architecture Examination Review Committee, in the case of a student who is judged to have failed, whether:
  - (i) failure is such that the student should not be permitted to progress;
  - (ii) failure is such that the student should only be permitted to progress if results in the remainder of the course in that semester average 65 per cent or more;
  - (iii) failure is marginal, and Design shall not be specially treated in determining progression.
- (b) The decisions of the Portfolio Review Committee shall not be subject to review by the Architecture Examination Review Committee, except that the latter body shall be empowered to award a conceded result.

## ARCHITECTURE DESIGN REVIEW

The subject Design is assessed by a Design Review Panel which inspects the year's work of each student and the marks awarded by his/her tutors and then arrives at a final grading by consensus. The Panel consists of Faculty members, eminent outside academics or practitioners, and student representation from the year being examined.

It is the view that this is the fairest method that can be devised for assessing a subject in which absolute standards are difficult to define. It ensures that consistent standards can be applied. With these safeguards in place and mindful of the difficulties of reconvening the Panel, assessments are not subject to review or appeal. However, the Panel may award a mark which indicates to the Architecture Examination Committee that a conceded pass may be granted in the light of a student's results in other subjects.

## GUIDELINES FOR THE AWARDING OF HONOURS

The award of Honours in the degree course may be recommended by the Faculty Board.

## POSTGRADUATE COURSE BY COURSEWORK

### Master of the Built Environment

This three-year part-time postgraduate course, taught by coursework, is uniquely comprehensive, dealing with the design and management issues involved in the regeneration of buildings and their settings at all levels of planning. This is heightened by the multidisciplinary nature of the specialist teaching provided and the involvement of students from differing professional backgrounds working in groups on complex case studies.

#### AIM

The aim of the course is to enable students to lead and participate in the process of refurbishment and regeneration of existing buildings and groups of buildings. It is intended that graduates of the course will be competent in the following areas:

- (a) designing and facilitating within interdisciplinary groups engaged in the regeneration of urban projects at both micro and macro levels of planning;
- (b) understanding the roles and practices of all specialist consultants and contractors, and their integration in the design; the importance of design in the project process, especially in regard to obsolete or historic buildings and work settings;
- (c) presenting sound design arguments in which the economic, social, financial, legal, aesthetic, technical and environmental issues have been properly assessed.

## QUALIFICATIONS FOR ADMISSION

A degree in one of the disciplines related to the built environment e.g. Architecture, Building, Quantity Surveying, Engineering, Planning, Surveying, or equivalent is required. Only students with a minimum of at least six years' postgraduate experience in their own field of study will be admitted. Admission of mature-age students or other special category students will be considered on their individual merits. However, they must be equivalent in competence to those admitted with degrees.

#### STRUCTURE

The course is structured to specifically meet the needs of society. The subjects are integrated across disciplines.

The subjects are grouped into three categories: social context, design technology and legal management. Complementary fields of study such as law, management, sociology and urban economics are also examined.

The subjects are introduced in the first two semesters, via coursework and theoretical studies, laying the foundation for comprehensive examination of the issues involved in urban renewal and regeneration in the following three semesters.

In the final semester, groups of students present a 'design option' via a rigorously argued case for the future use of a building or group of buildings, representing a synthesis of their studies. This design option will include reports and drawings describing the proposal clearly, showing its viability and all aspects of financing and program implementation. It is intended that the results of these studies be published.

## COURSE STRUCTURE

Credit points are shown in brackets.

### Year 1

#### *Semesters 1 and 2*

- 12584 Urban Architecture (6cp)  
 12585 Law (MBEnv) (5cp)  
 12586 Building Technology (MBEnv) (5cp)  
 12587 Economics (MBEnv) (6cp)  
 12564 Sociology (MBEnv) (2cp)

### Year 2

#### *Semesters 3 and 4*

- 12570 Urban Regeneration Process 1 (6cp)  
 12588 Design Management 1 (6cp)  
 12575 Urban Regeneration Process 2 (7cp)  
 12589 Design Management 2 (5cp)

### Year 3

#### *Semesters 5 and 6*

- 12579 Urban Regeneration Process 3 (7cp)  
 12590 Design Management 3 (3cp)  
 12582 Design Research (2cp)  
 12583 Design Project (12cp)

## POSTGRADUATE SUBJECT DESCRIPTIONS

### Guide to subject descriptions

The subject descriptions shown below indicate the subject code and name, the number of credit points for the subject (e.g. 3cp), the duration of the subject, indicated as semester weeks, if applicable, and the number of formal contact hours each week (e.g. 4 hpw); for some subjects, there may also be practical components off campus, and this is indicated in the text. Also shown are the prerequisites and/or corequisites if any, and a brief outline of the content.

Prerequisites are subjects which must be completed before taking the subject to which they refer. Corequisites are subjects which must be completed before or be taken concurrently with the subject to which they refer.

### **I2564**

#### **SOCIOLOGY (MBENV)**

*2cp; 1hpw*

Social theory; social values and population grouping in Australian society; housing; public participation in planning and community awareness; resident actions and effects of planning on communities and individuals.

### **I2570**

#### **URBAN REGENERATION PROCESS 1**

*6cp; 4hpw*

This is the first of a three-part presentation of this subject, in which the process of urban renewal and regeneration is studied in depth, dealing initially with these issues at a strategic planning level; next with the concept of obsolescence; and finally with a series of morphological studies of particular typologies and executed building case studies.

**I2575****URBAN REGENERATION PROCESS 2***7cp; 5hpw*

This part of the renewal and regeneration process deals with the concept of obsolescence as it affects buildings in use, their technology, fiscal viability and cultural significance.

**I2579****URBAN REGENERATION PROCESS 3***7cp; 5hpw*

A series of morphological studies examining the changing pattern of use that generic building types undergo, and the impact which this changing pattern has on their operation and efficiency.

**I2582****DESIGN RESEARCH***2cp; 1hpw*

A series of lectures and seminars dealing with the methodology of research programs; the principles of thinking, reasoning and argument; and the critical analysis of contemporary issues.

**I2583****DESIGN PROJECT***12cp; 8hpw*

Project: either drawn or written/or combination of two, covering an aspect of the built environment supervised and approved by a member of staff.

**I2584****URBAN ARCHITECTURE***6cp; 2hpw*

A general introduction to the subject is followed by a study of typologies; an analysis of historical precedents, and their influence and interaction on built-form land-use policies and philosophies employed in the making of cities, and in particular on the development of Sydney. A study of the theories of urbanism

which have influenced the making and transformation of existing cities this century, and particularly their impact since 1945.

**I2585****LAW (MBENV)***5cp; 2hpw*

A short subject in property law, both real and personal, and, although it begins with contracts and ends with contracts for the sale of land, it provides an intensive coverage of many of the major principles relating to property law in NSW. Building control and a regulatory approach to conservation and regeneration projects; operation of the Land and Environment Court.

**I2586****BUILDING TECHNOLOGY (MBENV)***5cp; 2hpw*

A study of the impact of the various technologies on various building typologies and their effect on the fabric of buildings studied diagnostically. This appraisal of buildings is undertaken to assess the implications of the concept of Long Life; Loose Fit; Low Energy when applied to buildings.

**I2587****ECONOMICS (MBENV)***6cp; 2hpw*

An introduction to aspects of macro- and microeconomics relevant to property development and property management. The nature and methods of financing development of the built environment; basic formulas and theory of finance including compound formulas. An analysis of the needs of property owners. Investigation and selection of appropriate investment strategies in accordance with predetermined objectives. Investment, market analysis and appraisal, and a detailed investigation of capitalisation rates and rates of return in property investment decisions.



**12588****DESIGN MANAGEMENT 1***6cp; 2hpw*

The management of the project process commencing with identification of opportunities for development resulting from the perceived or actual obsolescence of existing building stock to the final commissioning and handing over of a regenerated building that will ensure customer satisfaction. The subject will concentrate on the management of the marketing and the initial development phases of the project process. Outline of environmental planning legislation, regional proposal strategies, principles of environmental law, integration of future building control requirements, case studies.

**12589****DESIGN MANAGEMENT 2***5cp; 2hpw*

Project planning, design management, value management, quality assurance, building audits and post-occupancy evaluation studies as design aids. Physical and economic feasibility studies, cost-benefit analysis of regeneration/refurbishment of projects.

**12590****DESIGN MANAGEMENT 3***3cp; 1hpw*

Building control matters, 'engineered compliance', accreditation process, approval strategies, other authorities and approvals. Marketing system, marketing environment, market information, buyer and user behaviour, strategy, promotion and societal issues.

**PROGRAMS IN BUILDING STUDIES**

Courses in Building Studies deal with the planning, procurement, construction and management of real property. All undergraduate and postgraduate programs may be undertaken by students on a part-time basis. The Faculty has thereby developed a close interaction with industry, professional associations, and employer organisations.

**UNDERGRADUATE COURSES**

Three undergraduate courses of cooperative education are offered:

Bachelor of Building in Construction Management  
 Bachelor of Applied Science in Land Economics  
 Bachelor of Building in Construction Economics

**ATTENDANCE PATTERN**

These programs are offered on two attendance patterns: four years full time and six years part time.

**PROFESSIONAL/INDUSTRIAL EXPERIENCE**

In addition to attending classes, students are required to gain practical experience in professional or industrial organisations.

Full-time students undertake practical studies as part of the program included in core subjects. They are also required to gain approved professional experience in the final two full-time years of their programs. The experience required is to be equivalent to eight weeks continuous employment in each year of the final two years. Students are required to enrol in the professional/industrial experience subject relevant to their course, and supply details of the experience gained by way of an appropriate diary and log.

Part-time students are required to enrol each year, except Year 1, in the professional/industrial experience subject

relevant to their course, and to supply details of the experience gained. A total of three years' concurrent, relevant employment will satisfy this requirement of the course. Students satisfying this requirement may be exempted from the practical studies component of core subjects.

## Bachelor of Building in Construction Management

The Building graduate is concerned with management of the construction of building projects. Extensive technological skills go hand in hand with the capacity to manage people, machines and products in order to carry out this task as effectively as possible.

### COURSE STRUCTURE

Credit points are shown in brackets.

#### Four-year full-time program

##### Year 1

- 
- 16115 Construction 1 (8cp)
  - 16201 Drawing and Surveying (4cp)
  - 16541 Quantities 1 (4cp)
  - 51388 Communications (2cp)
  - 16211 Computations (6cp)
  - 16701 Materials 1 (6cp)
  - 16711 Building Science (4cp)
  - 16301 Services 1 (6cp)
  - 16901 Structures 1 (4cp)
  - 16601 Contextual Studies 1 (4cp)

##### Year 2

- 
- 16116 Construction 2 (8cp)
  - 16542 Quantities 2 (4cp)
  - 16611 Building Design (4cp)
  - 16602 Contextual Studies 2 (4cp)
  - 16531 Estimating 1 (4cp)
  - 16402 Management 2 (6cp)
  - 16702 Materials 2 (4cp)
  - 16902 Structures 2 (6cp)
  - 16801 Legal Studies 1 (4cp)
  - 16403 Management 3 (4cp)

##### Year 3

- 
- 16117 Construction 3 (8cp)
  - 16802 Legal Studies 2 (6cp)
  - 16404 Management 4 (6cp)
  - 16405 Management 5 (4cp)
  - 16903 Structures 3 (6cp)
  - 16511 Economic Management 1 (6cp)
  - 16197 Building Experience (F/T)

##### Year 4

- 
- 16118 Construction 4 (8cp)
  - 16406 Management 6 (4cp)
  - 16532 Estimating 2 (6cp)
  - 16512 Economic Management 2 (4cp)
  - 16131 Professional Practice (4cp)
  - 16221 Project (10cp)
  - 16197 Building Experience (F/T)

#### Six-year part-time program

##### Year 1

- 
- 16115 Construction 1 (8cp)
  - 16201 Drawing and Surveying (4cp)
  - 16541 Quantities 1 (4cp)
  - 51388 Communications (2cp)
  - 16701 Materials 1 (6cp)
  - 16711 Building Science (4cp)

##### Year 2

- 
- 16116 Construction 2 (8cp)
  - 16901 Structures 1 (4cp)
  - 16211 Computations (6cp)
  - 16542 Quantities 2 (4cp)
  - 16301 Services 1 (6cp)
  - 16198 Building Experience (P/T)

##### Year 3

- 
- 16117 Construction 3 (8cp)
  - 16601 Contextual Studies 1 (4cp)
  - 16402 Management 2 (6cp)
  - 16902 Structures 2 (6cp)
  - 16611 Building Design (4cp)
  - 16198 Building Experience (P/T)

##### Year 4

- 
- 16118 Construction 4 (8cp)
  - 16531 Estimating 1 (4cp)
  - 16702 Materials 2 (4cp)
  - 16602 Contextual Studies 2 (4cp)
  - 16801 Legal Studies 1 (4cp)
  - 16403 Management 3 (4cp)
  - 16198 Building Experience (P/T)

##### Year 5

- 
- 16802 Legal Studies 2(6cp)
  - 16404 Management 4 (6cp)
  - 16405 Management 5 (4cp)
  - 16903 Structures 3 (6cp)
  - 16511 Economic Management 1 (6cp)
  - 16198 Building Experience (P/T)

##### Year 6

- 
- 16406 Management 6 (4cp)
  - 16532 Estimating 2 (6cp)
  - 16512 Economic Management 2 (4cp)
  - 16131 Professional Practice (4cp)
  - 16221 Project (10cp)
  - 16198 Building Experience (P/T)

## Bachelor of Applied Science in Land Economics

The objectives of the Land Economics course are:

- (a) to produce a broadly educated graduate prepared for a career in the property industry;
- (b) to equip students with an understanding of the legalities, principles, and processes required in order that they can fill a professional role as valuer, real estate agent, business agent, stock and station agent, auctioneer, property manager or a number of these;
- (c) to develop an appreciation of a professional ethic which emphasises responsibility and responsiveness to community needs.

The course satisfies the educational requirements for licensing as a real estate agent, on-site residential property manager, business agent, stock and station agent, registration as a valuer and practice as a project manager.

### COURSE STRUCTURE

Credit point values are shown in brackets.

#### Four-year full-time program

##### Year 1

- 
- 16163 Appraisal and Statistics (8cp)
  - 16150 Land Studies 1 (6cp)
  - 16351 Introduction to Valuation (6cp)
  - 16361 Real Estate Fundamentals (6cp)
  - 16551 Economics (8cp)
  - 16552 Financial and Trust Accounting (8cp)
  - 16851 Introduction to Law (6cp)

##### Year 2

- 
- 16152 Surveying (2cp)
  - 16153 Building Technology (6cp)
  - 16352 Valuation Methodology (8cp)
  - 16354 Rural Valuation (6cp)
  - 16453 Development Management (4cp)
  - 16553 Real Estate Finance (6cp)
  - 16651 Urban Planning (4cp)
  - 16853 Planning and Environmental Law (6cp)
  - 16854 Real Estate Law and Conveyancing (6cp)

##### Year 3

- 
- 16155 Facility Evaluation (6cp)
  - 16355 Specialised Valuation Topics (8cp)
  - 16454 Investment and Portfolio Management (6cp)
  - 16652 Environmental Design (4cp)
  - 16456 Property Management and Maintenance (6cp)
  - 16554 Urban Economics (6cp)
  - 16997 Land Economics Experience (F/T)

##### Year 4

- 
- 16353 Advanced Valuation Methods (8cp)
  - 16751 International Real Estate (6cp)
  - 16356 Statutory Valuation and Litigation (4cp)
  - 16452 Real Estate Organisation and Management Theory (4cp)
  - 16455 Professional Practice Review (4cp)
  - 16961 Project (10cp)
  - 16997 Land Economics Experience (F/T)

#### Six-year part-time program

##### Year 1

- 
- 16163 Appraisal and Statistics (8cp)
  - 16351 Introduction to Valuation (6cp)
  - 16361 Real Estate Fundamentals (6cp)
  - 16551 Economics (8cp)

##### Year 2

- 
- 16150 Land Studies 1 (6cp)
  - 16352 Valuation Methodology (8cp)
  - 16552 Financial and Trust Accounting (8cp)
  - 16851 Introduction to Law (6cp)
  - 16998 Land Economics Experience (P/T)

##### Year 3

- 
- 16152 Surveying (2cp)
  - 16153 Building Technology (6cp)
  - 16355 Specialised Valuation Topics (8cp)
  - 16553 Real Estate Finance (6cp)
  - 16854 Real Estate Law and Conveyancing (6cp)
  - 16998 Land Economics Experience (P/T)

**Year 4**

- 
- 16353 Advanced Valuation Methods (8cp)
  - 16453 Development Management (4cp)
  - 16456 Property Management and Maintenance (6cp)
  - 16651 Urban Planning (4cp)
  - 16853 Planning and Environmental Law (6cp)
  - 16998 Land Economics Experience (P/T)

**Year 5**

- 
- 16155 Facility Evaluation (6cp)
  - 16454 Investment and Portfolio Management (6cp)
  - 16554 Urban Economics (6cp)
  - 16652 Environmental Design (4cp)
  - 16354 Rural Valuation (6cp)
  - 16998 Land Economics Experience (P/T)

**Year 6**

- 
- 16751 International Real Estate (6cp)
  - 16356 Statutory Valuation and Litigation (4cp)
  - 16452 Real Estate Organisation and Management Theory (4cp)
  - 16455 Professional Practice Review (4cp)
  - 16961 Project (10cp)
  - 16998 Land Economics Experience (P/T)

## **Bachelor of Building in Construction Economics**

The Construction Economics degree course provides quantity surveying education in applied economics for the construction industry, and leads to a professional qualification in quantity surveying. Quantity surveyors provide financial and economic advice relating to the cost management of projects from the time of their conception and extending throughout the design, construction and deployment phases. Quantity surveyors are key professionals in the construction industry and their clients include developers, government agencies, building proprietors, architects and contractors. The profession is suitable equally for men and women.

**COURSE STRUCTURE**

Credit points are shown in brackets.

**Four-year full-time program****Year 1**

- 
- 16115 Construction 1 (8cp)
  - 16501 Quantity Surveying 1 (8cp)
  - 16161 Mathematics and Statistics (4cp)
  - 16721 Material Science (8cp)
  - 16502 Quantity Surveying 2 (8cp)
  - 16162 Computing (6cp)
  - 16301 Services 1 (6cp)

**Year 2**

- 
- 16116 Construction 2 (8cp)
  - 16531 Estimating 1 (4cp)
  - 16503 Quantity Surveying 3 (8cp)
  - 16621 Design Evaluation (8cp)
  - 16521 Building Economics 1 (8cp)
  - 16801 Legal Studies 1 (4cp)
  - Elective(s) (8cp)

**Year 3**

- 
- 16117 Construction 3 (8cp)
  - 16802 Legal Studies 2 (6cp)
  - 16411 Contract Administration (8cp)
  - 16522 Building Economics 2 (8cp)
  - Elective(s) (6cp)
  - 16597 Quantity Surveying Experience (F/T)

**Year 4**

- 
- 16118 Construction 4 (8cp)  
 16523 Building Economics 3 (8cp)  
 16532 Estimating 2 (6cp)  
 16513 Economic Analysis (4cp)  
 16506 Quantity Surveying Practice (10cp)  
*or*  
 16224 QS Project (10cp)  
 16597 Quantity Surveying Experience (F/T)

**Six-year part-time program****Year 1**

- 
- 16115 Construction 1 (8cp)  
 16161 Mathematics and Statistics (4cp)  
 16501 Quantity Surveying 1 (8cp)  
 16721 Material Science (8cp)

**Year 2**

- 
- 16116 Construction 2 (8cp)  
 16162 Computing (6cp)  
 16301 Services 1 (6cp)  
 16502 Quantity Surveying 2 (8cp)  
 16598 Quantity Surveying Experience (P/T)

**Year 3**

- 
- 16117 Construction 3 (8cp)  
 16503 Quantity Surveying 3 (8cp)  
 16531 Estimating 1 (4cp)  
 16621 Design Evaluation (8cp)  
 16598 Quantity Surveying Experience (P/T)

**Year 4**

- 
- 16118 Construction 4 (8cp)  
 16521 Building Economics 1 (8cp)  
 16801 Legal Studies 1 (4cp)  
 Elective(s) (8cp)  
 16598 Quantity Surveying Experience (P/T)

**Year 5**

- 
- 16411 Contract Administration (8cp)  
 16522 Building Economics 2 (8cp)  
 16802 Legal Studies 2 (6cp)  
 Elective(s) (6cp)  
 16598 Quantity Surveying Experience (P/T)

**Year 6**

- 
- 16506 Quantity Surveying Practice (10cp)  
*or*  
 16224 QS Project (10cp)  
 16513 Economic Analysis (4cp)  
 16523 Building Economics 3 (8cp)  
 16532 Estimating 2 (6cp)  
 16598 Quantity Surveying Experience (P/T)

**INTERNATIONAL STUDENTS**

International students holding a diploma or advanced diploma from recognised institutions and in relevant fields may obtain advanced standing in the Construction Economics degree course. For example, students holding a Diploma in Quantity Surveying or an advanced diploma in a building-related discipline will enter the course by way of the **International Bridge**, which will operate each year over the summer term (December to February), and will thereafter complete a further 48 credit points of subjects. In this case students will be able to complete the requirements of the course effectively in one calendar year. There is a range of articulation pathways in the course, and students holding previous qualifications should contact the Faculty Office for further information.

The International Bridge comprises two subjects, which operate over the summer term:

- 16225 QS Project (Summer) (10cp)  
 16300 Industry Studies (14cp)

## UNDERGRADUATE SUBJECT DESCRIPTIONS

### Guide to subject descriptions

The subject descriptions shown below indicate the subject code and name, the number of credit points for the subject (e.g. 3cp), the duration of the subject, indicated as semester weeks, if applicable, and the approximate number of formal contact hours each week (e.g. 4 hpw); for some subjects, there may also be practical components off campus, and this is indicated in the text. Also shown are the prerequisites and/or corequisites if any, and a brief outline of the content.

Prerequisites are subjects which must be completed before taking the subject to which they refer. Corequisites are subjects which must be completed before or be taken concurrently with the subject to which they refer.

Subjects which include practical studies and field work as part of the requirements do not show hours per week. Where shown, the hours per week are indicative only.

### 16150

#### LAND STUDIES 1

6cp

An investigation into the relationship between real estate and society, to introduce thinking and presentation skills appropriate to academic development and to provide a fundamental working understanding of computer-based financial modelling appropriate to real estate.

### 16115

#### CONSTRUCTION 1

8cp

Residential construction. Terminology and detail design of typical residential buildings. Footings, floor, wall and roof framing, cladding, windows and doors, finishes and joinery. Interpreting architectural drawings and sketching construction details. Model building. Practical studies and field work.

### 16116

#### CONSTRUCTION 2

8cp

*prerequisite: 16115 Construction 1*

Commercial and industrial construction. Footings, basement construction, load-bearing wall systems, steel-framed buildings and concrete-framed buildings for multistorey construction. Materials handling systems and their application. Transportation and placement of concrete. Practical studies and field work.

### 16117

#### CONSTRUCTION 3

8cp

*prerequisite: 16116 Construction 2*

Commercial high rise construction. Curtain walling, built-up roofing systems, doors and frames, stairs and ramps, partitions, suspended ceilings and finishes. Site establishment and hoardings. Scaffolding. Formwork. Prestressed and post-tensioned concrete. Planning and coordination of services. Practical studies and field work.

### 16118

#### CONSTRUCTION 4

8cp

*prerequisite: 16117 Construction 3*

Construction techniques and equipment. Temporary works, site preparation and demolition. Earthmoving and soil compaction equipment, compressed air services, piling systems and associated plant, dewatering and blasting equipment. Fire safety regulations and requirements. Occupational health and safety. Practical studies and field work.

### 16131

#### PROFESSIONAL PRACTICE

4cp; 1hpw

The history and definition of professionalism, the organisation of professions in the building field, responsibilities of consultant to client, third party and community, conditions of engagement, indemnity insurance.

**16152****SURVEYING**

*2cp; 1hpw*

*prerequisite: 16163 Appraisal and Statistics*

The interpretation of survey plans; types of surveys; use of instruments; aerial photography.

**16153****BUILDING TECHNOLOGY**

*6cp; 3hpw*

Technology of components and elements of domestic, commercial and industrial buildings, both low and high rise: structures; facades; partitions; services. Relevance of ordinances. Aspects of refurbishing.

**16155****FACILITY EVALUATION**

*6cp; 2hpw*

*prerequisite: 16453 Development Management*  
*corequisite: 16456 Property Management and Maintenance*

The objective is to assess the effects of aspects of the design of buildings on user comfort, energy usage, aesthetics and safety: orientation, use of materials, layout, services. Ageing of buildings. Relationships of buildings to structures.

**16161****MATHEMATICS AND STATISTICS**

*4cp; 2hpw*

The study and use of mathematical and statistical tools appropriate to construction economics, with an emphasis on statistics. Data collection and presentation, descriptive statistics, graphical techniques, probability and distribution, index numbers, statistical inference, time series, correlation and regression analysis. Computer applications.

**16163****APPRAISAL AND STATISTICS**

*8cp*

The study of mathematical and statistical tools required for land economics: equations solution; indices and surds; logarithms; graphs, coordinate geometry; trigonometry; simple differentiation and integration. Descriptive statistics; probability; regression and multiple regression; time series analysis; statistical inference. Practical studies and field work.

**16197****BUILDING EXPERIENCE (F/T)****16198****BUILDING EXPERIENCE (P/T)****16201****DRAWING AND SURVEYING**

*4cp; 2hpw*

Drafting and graphic skills including lettering, plane and solid geometry and projections. Use of drawing to solve detailing problems. Selection of scales and mode of presentation to communicate. Use of drawings in the building process. Architectural floor plans, reconciliation of dimensions, the meaning of lines, building terms, use of references. The process of setting out works; extractions of information from surveying drawings, levels, contours; the choice of setting out techniques; the use of tape, level, theodolite and optical plummets. The NSW land title systems. Powers of public authorities.

**16211****COMPUTATIONS**

*6cp; 4hpw*

The exploration and application of functions and graphs, differentiation and integration. An introduction to matrix algebra. Chance and probability, permutations and combinations. Presentation of data. Average and means, central

tendency. Scatter, standard deviation, variance. Distribution: binomial, Poisson, normal, confidence. The computing course is aimed at developing the students' basic knowledge of computing skills and is structured to allow them to further develop these skills through the solving of suitable problems.

### **16221**

#### **PROJECT**

*10cp; 4hpw*

A major project, undertaken by each student involving the detailed study of an individual topic with the preparation of a comprehensive report.

### **16224**

#### **QS PROJECT**

*10cp*

*alternative to 16506 Quantity Surveying Practice*

Preparation and submission of a major project, involving the detailed study of an individual topic related to the field of construction economics.

### **16225**

#### **QS PROJECT (SUMMER)**

*10cp*

Preparation and submission of a major project involving the detailed study of an individual topic related to the field of construction economics.

### **16300**

#### **INDUSTRY STUDIES**

*14cp*

A critical and quantitative examination of parts of the Australian construction industry and their comparison with international practice and performance, plus documented field work necessary for the collection and interpretation of the research data.

### **16301**

#### **SERVICES 1**

*6cp; 3hpw*

An introduction to hydraulic, electrical, airconditioning, vertical transportation, fire protection services and systems. Terminology, design and construction requirements. Intelligent buildings.

### **16351**

#### **INTRODUCTION TO VALUATION**

*4cp; 1.5hpw*

An introduction to the valuation profession, its role and function within the real property industry. Basic theory, methodology and technical tools of the valuer. Introduction to the ethics of real estate administration.

### **16352**

#### **VALUATION METHODOLOGY**

*8cp*

*prerequisites: 16351 Introduction to Valuation, 16163 Appraisal and Statistics*

An in-depth study of the role, functions and obligations of the valuation profession. Areas studied include: methods of valuation; time value of money; measures of rates of return; resumption and acquisition values; the use of statistical analyses in valuation practice. Practical studies and field work.

### **16353**

#### **ADVANCED VALUATION METHODS**

*8cp*

*prerequisites: 16352 Valuation Methodology, 16355 Specialised Valuation Topics*

The subject is designed to provide an extensive and in-depth knowledge of real estate feasibility studies for development and investment projects. Practical studies and field work.



**16354****RURAL VALUATION**

6cp; 2hpw

*prerequisite: 16551 Economics*

*corequisite: 16352 Valuation Methodology*

An in-depth study of the purpose and methodology of valuing non-urban and rural properties. Introduction to the importance of agriculture to the Australian economy.

**16355****SPECIALISED VALUATION TOPICS**

8cp

*prerequisite: 16352 Valuation Methodology*

*corequisite: 16553 Real Estate Finance*

An in-depth study of the more specialised areas in the valuation profession. Capitalisation, summation and replace cost approaches are developed. Practical studies and fieldwork.

**16356****STATUTORY VALUATION AND LITIGATION**

4cp; 1.5hpw

*corequisite: 16353 Advanced Valuation Methods*

Valuation case law is discussed. Expert witness testimony and specialist report writing are covered with particular reference to professional negligence.

**16361****REAL ESTATE FUNDAMENTALS**

6cp; 2hpw

An introduction to the real estate industry examining the statutory controls and professional ethics and applying them to agency practice. The property market will also be examined.

**16402****MANAGEMENT 2**

6cp; 2hpw

*prerequisites: 51388 Communications, 16115 Construction 1*

Organisation theory, the individual in the workplace, leadership, needs hierarchy, motivation, communication,

problem solving, organisational variables, buildability and construction planning of domestic scale projects.

**16403****MANAGEMENT 3**

4cp; 1hpw

*prerequisite: 16402 Management 2*

Statistics, operations research and mathematical methods associated with quality control.

**16404****MANAGEMENT 4**

6cp; 2hpw

The principles and practice of the writing and interpretation of specifications for building work; the impact of standard codes and building regulations; developments in the standardisation and computerisation of specifications. The administration of contracts. By case studies, an examination of the administrative requirements for efficient contracts.

**16405****MANAGEMENT 5**

4cp; 2hpw

*prerequisite: 16403 Management 3*

Management of organisation to achieve objectives and the management of quality.

**16406****MANAGEMENT 6**

4cp; 2hpw

*prerequisites: 16405 Management 5, 16802 Legal Studies 2*

Building process as a system, project constraints, project management, complex project analysis, roles of licensing boards, advanced site safety, safety and design, industrial relations.

**16411****CONTRACT ADMINISTRATION***8cp; 3hpw**prerequisite: 16801 Legal Studies I*

The principles and practice involved in the administration of building contracts, including preparation of variations, progress claims, activity reports, cash flows and package-deal documentation. Rise and fall provisions. General conditions of contract. Specification writing. Construction planning for residential and commercial projects.

**16452****REAL ESTATE ORGANISATION AND MANAGEMENT THEORY***4cp; 1.5hpw**prerequisite: 16361 Real Estate Fundamentals*

Examination of the relevance of organisation theory to real estate, valuation and property departments: contributions of various theorists; technology, motivation, group behaviour, structure, goals, analysis of various organisational forms.

**16453****DEVELOPMENT MANAGEMENT***4cp; 1.5hpw**prerequisites: 16351 Introduction to Valuation, 16163 Appraisal and Statistics*

Aspects of the management of projects under development: client needs determination; procurement methods; design management including cost planning and buildability; approvals management.

**16454****INVESTMENT AND PORTFOLIO MANAGEMENT***6cp; 1.5hpw**prerequisites: 16553 Real Estate Finance, 16453 Development Management*

In-depth study of the methods and techniques of real estate market and feasibility studies. A study of portfolio management with an introduction to the techniques of investment and portfolio analysis.

**16455****PROFESSIONAL PRACTICE REVIEW***4cp; 2hpw**prerequisites: 16854 Real Estate Law and Conveyancing, 16456 Property Management and Maintenance*

Definition of responsibilities of consultant to client, ethics and regulations, third party and community; conditions of engagement; indemnity insurance; the auctioneering profession: duties and responsibilities.

**16456****PROPERTY MANAGEMENT AND MAINTENANCE***6cp; 3hpw**prerequisites: 16361 Real Estate Fundamentals, 16552 Financial and Trust Accounting, 16153 Building Technology*

The management of large complex properties. Development and administration of systems for market research, rent collection, tenancy management, investment taxation and negotiation. Development of maintenance standards for and estimate of live components of buildings. Maintenance budgets; assessing the effects of design on maintenance and recording operating cycles of plant and equipment.

**16501****QUANTITY SURVEYING 1***8cp; 3hpw*

An introduction to quantity surveying services and methods. The measurement and calculation of simple quantities. Principles of measurement, set-out and notation. Quantity surveying activities, opportunities and responsibilities, including the benefits of membership of a professional institution. Written communication skills.

**16502****QUANTITY SURVEYING 2***8cp; 3hpw**corequisite: 16501 Quantity Surveying 1*

The preparation and uses of a bill of quantities and types of documentation formats in common use. The acquiring of competence in preparing trade packages within a bill of quantities in accordance with the current Australian Standard Method of Measurement. Measurement rules and procedures. Computer measurement systems.

**16503****QUANTITY SURVEYING 3***8cp; 3hpw**prerequisites: 16502 Quantity Surveying 2, 16301 Services 1*

The measurement, estimation, procurement and cost management of engineering services, such as hydraulics, electrical, mechanical and fire protection systems. Measurement of civil engineering quantities.

**16506****QUANTITY SURVEYING PRACTICE***10cp; 3hpw**alternative to 16224 QS Project*

A critical examination of the quantity surveying profession and its future. Professional practice, ethics and codes of conduct. Professional liability and indemnity. Setting up and running a professional practice. Conflict management and dispute resolution. Topical issues affecting the profession and the industry.

**16511****ECONOMIC MANAGEMENT 1***6cp; 3hpw*

Principles of accounting and business finance. Profit and loss statements; balance sheets; cash budgets, services of funds and financial decision making are examined in detail.

**16512****ECONOMIC MANAGEMENT 2***4cp; 2hpw*

The financial control of construction projects which involves variances, budgets and development of various systems of control. The second part of the subject concentrates on the preparation of feasibility studies for development and investment projects.

**16513****ECONOMIC ANALYSIS***4cp; 2hpw*

The application of economic analysis and forecasting to the building, construction and property industries. The measurement of economic performance in terms of benchmarking and productivity indicators. The need for industry restructuring and microeconomic reform and the role of innovation in the construction process. Valuation methods and the preparation of feasibility studies for development projects. Forecasting techniques and the impact of economic assumptions.

**16521****BUILDING ECONOMICS 1***8cp; 3hpw**prerequisite: 16502 Quantity Surveying 2*

An examination of the principles and practices relating to building economics, including budgeting, feasibility studies, preliminary estimating, cost planning and elemental cost analysis. Building price indices. Cost modelling techniques and expert systems are explored in detail. Computer methods are used to solve cost problems.

**16522****BUILDING ECONOMICS 2***8cp; 2hpw*

An introduction to the structure and performance of the Australian economy, covering aspects of basic macro-economics and microeconomics relevant to the construction industry, property development and property management.

**16523****BUILDING ECONOMICS 3***8cp; 3hpw**prerequisite: 16521 Building Economics 1*

Advanced techniques used by building economists in evaluating design alternatives are examined in detail, specifically life-cost planning and analysis, cost-benefit analysis, multi-objective decision analysis, value management and post-occupancy evaluation.

**16531****ESTIMATING 1***4cp; 3hpw**prerequisite: 16542 Quantities 2 or 16502 Quantity Surveying 2*

The development of techniques and skills for the pricing of construction work. Conceptual and bid estimating. Calculation of labour, material, plant, subcontract and indirect costs. Pricing of bill of quantities items. Obtaining and checking subcontract quotations. Tendering procedures.

**16532****ESTIMATING 2***6cp; 2hpw**prerequisites: 16531 Estimating 1, 16161 Mathematics and Statistics or 16211 Computations*

A review of the techniques used in the preparation of competitive tenders for construction projects is undertaken. Tendering objectives and procedures are examined in detail. Bidding strategy theory and practice including statistical applications. Risk analysis and risk evaluation theory. Probabilistic estimating techniques.

**16541****QUANTITIES 1***4cp; 2hpw*

An introduction to quantity surveying purposes and methods. The measurement and calculation of quantities.

**16542****QUANTITIES 2***4cp; 2hpw**prerequisite: 16541 Quantities 1*

Measurement of work involving most trades from documents prepared by the School.

**16551****ECONOMICS***8cp; 3hpw*

Microeconomic theory – largely traditional microeconomic theory but with an emphasis on the property market. Each topic covered is directly and indirectly related to the property market to ensure student understanding of the relevance and application of each concept. An introduction to macroeconomics. Analytical tools are developed to provide insight into the nature and causes of major problems currently confronting Australia. The interrelationship of macroeconomic variables as well as the influence of microeconomic reform on the economy's overall efficiency is emphasised.

**16552****FINANCIAL AND TRUST ACCOUNTING***8cp; 3hpw*

An introduction to basic accounting: the preparation and use of accounting information; the tools used. Accounting related to business funds and cash flows; trust accounting; requirements under the *Property, Stock and Business Agents Act*; use of data processing.

**16553****REAL ESTATE FINANCE***6cp; 2hpw**prerequisites: 16552 Financial and Trust Accounting, 16163 Appraisal and Statistics*

An overview of the corporate financial system in Australia; concepts and techniques of financial evaluation; time value of money; risk management; financing of investments. Real estate

investment analysis and methods of financing. The institutional structure of financing; primary and secondary mortgage markets; financing techniques.

### **16554**

#### **URBAN ECONOMICS**

*6cp; 2hpw*

*prerequisites: 16551 Economics, 16651 Urban Planning*

Economic theories of land use including location theory, urbanisation, demographics of cities, role of levels of government, urban problems, decentralisation and transportation.

### **16597**

#### **QUANTITY SURVEYING EXPERIENCE (F/T)**

### **16598**

#### **QUANTITY SURVEYING EXPERIENCE (P/T)**

### **16601**

#### **CONTEXTUAL STUDIES 1**

*4cp; 2hpw*

The relationship of people to the physical environment. The function of human and natural systems; their responses. The environmental impact of cities.

### **16602**

#### **CONTEXTUAL STUDIES 2**

*4cp; 2hpw*

Social and political systems in the urban situation. Urban planning.

### **16611**

#### **BUILDING DESIGN**

*4cp; 3hpw*

*prerequisite: 16601 Contextual Studies 1*

An examination of the parameters that affect building design; the problems that architects face in designing buildings; case studies of design, both professional and other. Design exercises.

### **16621**

#### **DESIGN EVALUATION**

*8cp; 2hpw*

An examination of the factors that affect building design; the problems that architects face in designing buildings; building orientation and thermal performance; design history and philosophy. Structural evaluation of building systems. Design exercises.

### **16622**

#### **ENVIRONMENTAL PLANNING**

*8cp; 3hpw*

Available as an elective in the Construction Economics course. Contextual issues relating to man's impact on the environment. Urban planning and sociology. Environmental impact assessment. Economic theories of land use including urbanisation, effects of controls, provision of services, rehabilitation and renewal, welfare provision, transportation and decentralisation. Legal aspects of town planning and the approval process.

### **16651**

#### **URBAN PLANNING**

*4cp; 2hpw*

An introduction to planning examining the major planning issues facing Australian cities; Sydney's future in the context of post-war metropolitan planning; density and form of development; learning to analyse urban patterns and formulate development policy.

### **16652**

#### **ENVIRONMENTAL DESIGN**

*4cp; 2hpw*

Introduction to the history of architecture and building design as an art form. The relationship of people to the physical environment. The function of human and natural systems; their responses. The environmental impact of cities.

**16701****MATERIALS 1***6cp; 2 hpw*

An introductory course in the properties of building materials. Most commonly used materials are covered, but not in depth.

**16702****MATERIALS 2***4cp; 2hpw**prerequisite: 16701 Materials 1*

A detailed course in concrete technology emphasising those aspects of concrete properties which are relevant to the building site. The properties and uses of those metals commonly used in building. The properties and uses of mastics and sealants. Properties of surface coatings.

**16711****BUILDING SCIENCE***4cp; 1hpw*

The physics of heat, light and sound are covered with reference to applications in buildings.

**16721****MATERIAL SCIENCE***8cp; 3hpw*

The properties and behaviour of building materials, in particular the characteristics of metal, timber and concrete. Material testing. The theory of architectural science. Heat, light and sound principles and their application to building design and material selection.

**16751****INTERNATIONAL REAL ESTATE***6cp; 1.5hpw**prerequisite: 16551 Economics*

Analysing the factors that determine foreign investment; an examination of foreign investment in the real estate markets with particular focus on Australia and the Pacific regions.

**16801****LEGAL STUDIES 1***4cp; 2hpw*

An introduction to the legal system in Australia including sources of law, the court system and legal personnel. A detailed study of contract law and an outline of criminal law, civil law, industrial law, insurance law, dispute resolution, property law and the law of business associations.

**16802****LEGAL STUDIES 2***6cp; 2hpw**prerequisite: 16801 Legal Studies 1*

The tortious liability imposed by the law upon professionals, some major contractual problems related to the building industry and an outline of employment law and statutory industrial regulation.

**16851****INTRODUCTION TO LAW***6cp; 2hpw*

The legal system in Australia; sources of law; the court system; legal personality; the law of business association; an introduction to criminal law, civil law, industrial law and the law of torts, commercial arbitration and insurances. A detailed study of contract law.

**16853****PLANNING AND ENVIRONMENTAL LAW***6cp; 2hpw**prerequisite: 16851 Introduction to Law*

Social theory: analysis of planning theories; and environmental law; individual theories examined: contributions of theories to understanding society. Social values in Australia: effects of values and socialisation on behaviour norms. Housing in Australia: desired attributes; government policies. Public participation in community development. Resident actions. Effects of planning on individuals. Introduction to the design of subdivisions: drainage; road and services design. Transportation and its effects.

**16854****REAL ESTATE LAW AND CONVEYANCING***6cp; 2hpw**prerequisite: 16851 Introduction to Law*

The principles and details of real estate law including: the law relating to agents; consumer protection; sale of goods and trade practices legislation. Principles associated with the transfer and acquisition of property. Titles of property.

**16901****STRUCTURES 1***6cp; 2hpw*

Equilibrium; properties of sections; axial stress and strain; bending moment and shear force; bending and shear stresses deflection; analysis of trusses.

**16902****STRUCTURES 2***6cp; 3hpw**prerequisite: 16901 Structures 1*

Loading; structural timber, structural steel, soil properties, soil mechanics, small retaining walls, temporary soil retaining structures.

**16903****STRUCTURES 3***6cp; 2hpw**prerequisite: 16902 Structures 2*

Statically indeterminate structures; reinforced concrete slabs; prestressed concrete; brickwork; temporary structures; heritage conservation.

**16961****PROJECT***10cp; 4hpw*

Project can only be undertaken in the final years. Requirement: students cannot enrol in Project if they have more than 36 credit points in total (full time) or 28 credit points in total (part time) to complete the degree. A detailed study,

under supervision, of an individual topic with the presentation of a comprehensive report.

**16997****LAND ECONOMICS EXPERIENCE (F/T)****16998****LAND ECONOMICS EXPERIENCE (P/T)****51388****COMMUNICATIONS***2cp; 1hpw*

Develops human communication skills and promotes understanding of the communication process. Emphasis is on business writing and effective speech communication. Intensive writing practice will be related to communication principles. Teaching will be by lecture for communication principles and in small group workshops for writing and oral communication.

**ELECTIVES**

Electives in the Construction Economics course may be chosen from other courses offered within the Faculty, elsewhere in the University or other approved tertiary institutions. The choice of electives is at the student's discretion, but subject to availability and approval by the Program Director. Further details are supplied at the time of enrolment.

## PROFESSIONAL MEMBERSHIP

Upon graduation, students may be eligible to apply for membership of the relevant professional bodies. Whilst enrolled at the University, students may take out student membership.

Students should note that the Faculty's regulations regarding approved Practical Experience as set out apply to the award of its degrees, and are different from, and may not meet, the practical experience requirements demanded by the professional bodies as a condition of membership.

Students should bear in mind their future professional intentions when satisfying the practical experience requirements for their degree.

Although reference should be made to specific organisations, a guide to the requirements of the various bodies for admission to full membership is as follows:

### AUSTRALIAN INSTITUTE OF VALUERS AND LAND ECONOMISTS (INC)

Student membership is actively sought by the Institute and students are encouraged to join the various study groups, details of which are available from the Registrar.

The requirements for Associate Membership include:

- (a) a degree in a recognised course of study i.e. Bachelor of Applied Science (Land Economics) at the University of Technology, Sydney;
- (b) a minimum of two years' approved valuation experience prior to application.

Under the provisions of the *Valuers Registration Act*, valuers are required to be registered. Full details can be obtained from the Real Estate Services Council.

### REAL ESTATE INSTITUTE OF NSW (REI)

The REI is the main professional body for real estate agency practice. Student membership is available and encouraged.

Amongst other things, membership entitles the student to receive the REI journal and participate in any of their Chapters, such as: Property Management, Commercial and Industrial, and Valuation.

### AUSTRALIAN INSTITUTE OF QUANTITY SURVEYORS

Successful completion of the Construction Economics degree course satisfies the educational requirements for admission to full corporate membership of the AIQS, though particular experience requirements also need to be met. Part-time students can obtain this experience during the last two years of their course so that they will be eligible for interview (Assessment of Professional Competence) immediately upon completion. Reciprocal membership with the RICS and NZIQS is also available.

### AUSTRALIAN INSTITUTE OF BUILDING

The Construction Management course satisfies the academic requirements for corporate membership of the Australian Institute of Building. There are also professional experience requirements concerning which students should refer to that body for details.



## UNDERGRADUATE COURSE REGULATIONS

These regulations shall be read in conjunction with the University's Rules and By-Law:

1. On the recommendation of the Examination Review Committee, the Faculty Board may in exceptional circumstances exempt a student from the regulations relating to progression.
2. The year in these regulations is defined as the program for a year shown in the current edition of the Faculty Handbook.
3. A student may not enrol in subjects spanning more than two consecutive years of the course.
4. A student may undertake subjects totalling not more than eight credit points from the previous year while doing a full program from the next year.
5. A full-time student who is required to repeat subjects totalling more than eight credit points may enrol in subjects from the next year which would bring the student's total program to not more than 42 credit points.
6. A part-time student who is required to repeat subjects totalling more than eight credit points may enrol in subjects of the next year which would bring the student's total program to not more than 28 credit points.
7. In exceptional circumstances, course programs at variance with the above rules may be approved by the Associate Dean.

## GUIDELINES FOR THE AWARDING OF HONOURS

The award of Honours in undergraduate degree courses may be recommended by the Faculty Board for meritorious performance. Any such award is entirely within the discretion of the Faculty Board and numeric calculation of level of performance is only one of the matters taken into consideration.

## EXAMINATIONS AND ASSESSMENT

Final grading for progression is determined by combining the total marks for class work and for final examinations, if any. Class assignments and quizzes are therefore of great importance.

Final examinations may be held at the end of the year, but some examinations may also be held at the end of the Autumn semester.

Arrangements for informal examinations, conducted in class, will be announced by the lecturer in each case. It is each student's responsibility to be present.

## CONDUCT OF THE EXAMINATION REVIEW COMMITTEE

The Faculty Board has determined that the following procedures govern the operation of Examination Review Committees for each course:

1. The Examination Review Committee is a subcommittee of the Faculty Board with delegated power to make decisions on behalf of the Board.
2. The membership of the Examination Review Committee for each course shall be the academic staff offering the course; the Dean shall be a member *ex officio*.
3. The Examination Review Committee may modify the assessment of any examiner, subject to clauses 4 to 7 below.
4. A conceded pass in a subject may be awarded if the following are satisfied:
  - (a) The subject mark is in the range 45 per cent to 49 per cent.
  - (b) The student's average mark for the assessment period is 55 per cent or greater.
  - (c) Only one failure is recorded for that assessment period.
5. Clause 4 may be varied in exceptional circumstances.

6. Extenuating personal circumstances should not be taken into account in the examiners' assessments, but any such circumstances and recommendations may be brought to the attention of the Examination Review Committee.
7. Results should not be withheld unless the issue is expected to be determined within a week (e.g. by the submission of further or revised work) of the commencement of the following semester. Otherwise a failure should be recorded.
8. The Dean or Associate Dean may amend the decisions of the Examination Review Committee in the case of obvious clerical or arithmetic errors.
9. Except as to (8), no alterations may be made to the subject assessments of the Examination Review Committee other than by the use of an official review procedure.
10. The Associate Dean may amend the progression of a student as determined by the Examination Review Committee in the light of subject reassessments.
11. All alterations made under (8) are to be reported to the Faculty Board.

### UNIVERSITY MEDAL

A student who displays exceptional merit in any of the undergraduate degree courses may be recommended for the award of the University Medal in addition to graduating with First Class Honours. Any such recommendation will be submitted to the appropriate University committee for approval.

### CHECKING OF ENROLMENT DETAILS

It is the student's responsibility to check that her/his enrolment is correctly shown on the listings which will be exhibited on the noticeboards during the first few weeks of each semester, and to notify the Faculty Office of any errors.

### ATTENDANCE

It is the student's responsibility to attend lectures and carry out all assignment and examination work in every subject in which he/she is enrolled.

On rare occasions, students repeating a subject may make special arrangements with the Coordinating Examiner regarding exemption from attendance at lectures for part of a course and/or credit for work previously completed. Any such arrangement must be documented, and it is the student's responsibility to obtain, in writing, clear evidence of the details of the arrangement from the Coordinating Examiner.

### ASSIGNMENTS

Assignments are to be handed in on or before the date and time specified in the program. Late assignments will not be accepted unless accompanied by a medical certificate or the like. It is each student's responsibility to make sure that the receipt of his/her assignment is noted by the lecturer.

Lecturers may, at their discretion, accept late assignments (and exact appropriate penalties), if students make arrangements in advance.

### WITHDRAWAL FROM SUBJECTS

Students are referred to University Rule 2.13 regarding withdrawal from subject(s) and their program of study.

The Associate Dean may grant approval for students to withdraw without academic penalty beyond this date.

**Students having problems with the course caused by personal or work-related pressures are advised that the matter should, in the first instance, be discussed with the Program Director.**

## QUERIES AND COUNSELLING

The Program Director and Subject Coordinators are course counsellors; queries of a general nature should be addressed to them. However, matters concerning a single subject should be raised in the first instance with the lecturer in that subject.

## PRIZES AND AWARDS

A number of prizes and awards are available to students in the Faculty (see the 1995 *Calendar*).

## POSTGRADUATE COURSES BY COURSEWORK

All coursework postgraduate programs feature flexible and innovative attendance patterns, designed to suit busy practising professionals.

This attendance pattern involves full-time attendance of separate week-long or equivalent sessions (i.e. attendance over five consecutive days or two-and-a-half days on a given week, two-and-a-half days on another). This permits students to attend courses with minimal disruption to their professional and personal lives and allows those living in the country, interstate or overseas to participate. Specific attendance dates are available from the Faculty Office.

## Graduate Diploma in Urban Estate Management

The purpose of Urban Estate Management is to preserve or enhance the value of the resources of the urban estate, for the benefit of the community.

### AIMS

On completion of this course the student should be able to:

- (a) understand social, economic, managerial, legal and physical systems which collectively contribute to the success or failure of the development and management of the urban estate;
- (b) initiate proposals for the development of property and, as part of the process: satisfy economic, finance, legal and planning constraints; establish an appropriate management structure (including joint ventures) to allow the development to be completed as efficiently as possible; monitor the development process ensuring that consultants and contractors satisfy the needs of the client organisation; estimate the social costs and benefits of development and community acceptance of this;

- (c) manage a group of properties or a property portfolio in order to: provide and maintain an adequate return to the owner/investor; satisfy the needs of the tenants; protect and maintain the urban environment;
- (d) develop and advise on appropriate investment strategies in isolation or as part of an overall investment portfolio;
- (e) participate as a member of an organisation's management team or as the leader of such a team, and develop corporate policy;
- (f) appreciate a professional ethic which emphasises responsibility and responsiveness to community needs;
- (g) operate as a specialist or a generalist with regard to the above;
- (h) operate at middle to senior level in an organisation.

### QUALIFICATIONS FOR ADMISSION

To qualify for entry an applicant shall hold a Bachelor's degree or a Diploma in Technology; or possess an equivalent qualification; or submit such other evidence of general and professional qualification that demonstrates the applicant's educational preparation and capacity to pursue graduate studies.

### STRUCTURE

The GradDipUEM requires the completion of subjects totalling 48 credit points. The course can be undertaken on a part-time or full-time basis, or combination of both, depending on the student's particular needs at a given time.

The majority of candidates will enrol on a part-time basis, completing the course as outlined below by attending eight two-and-a-half-day sessions over each of the two years of the course. Students wishing to follow an alternative pattern e.g. completion in one year, are advised to contact the Program Director.

### COURSE STRUCTURE

Credit points are shown in brackets

#### Year 1

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12511	Building Technology (3cp)
12515	Property Economics 1 (3cp)
12516	Urban Sociology (2cp)
12517	Property Management (3cp)
12518	Legal Procedures 1 (3cp)
12524	Property Development Management 1 (3cp)
12528	Legal Procedures 2 (3cp)
12542	Marketing (2cp)
12550	Project (6cp) <sup>1</sup>

#### Year 2

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12168	Development Control Interface (4cp)
12525	Property Economics 2 (3cp)
12535	Property Economics 3 (3cp)
12527	Property Finance (3cp)
12543	Property Development Management 2 (4cp)
12551	Urban Land Use and Planning (3cp)
12545	Property Economics 4 (4cp)
12549	Organisational Policy and Management (2cp)
12550	Project (6cp) <sup>1</sup>

<sup>1</sup> Students may enrol in Project once only. Project can be substituted for any two subjects totalling six credit points, with the approval of the Program Director.

## Graduate Diploma in Building Surveying and Assessment

### AIM

The aim of this two-year part-time course is to enable students to lead, coordinate and/or participate in the Local Government Approvals Process as multiskilled professional building surveyors/certifiers, and to assess buildings on behalf of owners as an extension of building surveying to private enterprise beyond that of certification. To this end, graduates of the course will be competent in the following roles:

- (a) multiskilled surveyors and facilitators within multidisciplinary groups engaged in the assessment and approval of urban projects on behalf of the community, via local government;
- (b) professional building surveyors in private enterprise engaged in the certification of complexes for compliance with the relevant legislation;
- (c) professional building surveyors in private enterprise, who are technically competent to assess buildings on behalf of owners for reasons such as risk, safety, fitness of purpose and overall investment potential;
- (d) showing an understanding of the roles and practices of all specialist disciplines (environmental health surveyors, planners etc. certifiers/checkers, design consultants, contractors, asset managers, and the like); their integration in the regulation, control, assessment, maintenance, and certification for compliance of complexes; and their criticality both in the project process and the life cycle of the complex (or asset) especially with respect to hazardous and complex buildings/facilities;
- (e) in the preparation of codes and standards, and understanding the intent of the provisions of the relevant legislation;
- (f) in the assessment of designs prepared in accordance with performance objectives;
- (g) in presenting sound arguments which are cognisant of the social, legal, technical, safety, health and environmental issues, and are properly assessed and evaluated in any approval, study, assessment or certification;
- (h) in satisfying the requirements of item (g) within a cost-effective framework;
- (i) in presenting comprehensive evidence before a Board of Referees or a Court as a professional expert witness.

The graduates of this course are intended to make a major contribution to the industry as well as the community as more informed professionals returning to their own disciplines, as building surveyors at senior levels in local government, or as consultant building surveyors involved in certification or assessing building performance for owners, users and investors.

### QUALIFICATIONS FOR ADMISSION

To qualify for entry an applicant should hold a Bachelor's degree or a Diploma in Technology; or an equivalent qualification; or submit such other evidence of general and professional qualification that demonstrates the applicant's educational preparation and capacity to pursue graduate studies.

Eligible applicants who were unable to complete undergraduate degrees in either Environmental Health or Building Surveying may be required to undertake additional study prior to the commencement in the areas of Building Technology and Engineering Fundamentals. Further information and advice on this can be obtained from the Program Director.

## STRUCTURE

The GradDipBSA requires the completion of subjects totalling 48 credit points. The course is undertaken by attendance at eight week-long (or equivalent) sessions over two years.

## COURSE STRUCTURE

Credit points are shown in brackets.

### Year 1

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12518	Legal Procedures 1 (3cp)
12528	Legal Procedures 2 (3cp)
12157	Risk Management and Local Government (3cp)
12158	Codes and Standards 1 (2cp)
12115	Building Science and Environmental Factors (4cp)
12164	Fire Engineering 1 (3cp)
12165	Structural Performance (3cp)
12169	Fire Engineering 2 (3cp)

### Year 2

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12167	Legal Procedures 3 (2cp)
12168	Development Control Interface (4cp)
12170	Building Assessment (6cp)
12171	Certification Process and Practice (4cp)
12172	Codes and Standards 2 (2cp)
12174	Special Issues in Building, Surveying and Assessment (6cp)
	<i>or</i>
12551	Urban Land Use and Planning (3cp)
	<i>and</i>
	Elective (3cp)

The elective may be any subject chosen from any postgraduate course within the Faculty, subject to availability/ approval.

## Graduate Diploma in Planning/Master of Planning

The course is designed to meet the needs of professionals in the many different aspects of urban development, including planners, architects, engineers, social planners, lawyers, managers, and those involved in finance, investment and development.

The Graduate Diploma in Planning is offered as a two-year, part-time terminating course. Students enrolled in the Master of Planning complete an additional year of part-time study.

## AIM

The course focuses on the processes by which development takes place, and seeks to improve the quality of the physical planning and development control which form an integral part of those processes. The course addresses the major social and environmental issues of the cities and regions; emphasises the economics and the practicalities of how development takes place; treats the processes of statutory planning and development control as subjects of academic inquiry, and capable of much higher levels of performance; develops skills for understanding how planning decisions influence costs, function, feasibility, building form and aesthetics; adopts an integrated, skills-based educational approach; and provides practical experience of innovative planning techniques.

The aims of the course can best be met if a significant component emulates planning practice. This is feasible in a part-time course if the students have had relevant work experience since gaining an appropriate first degree, if they are concurrently working in a related area, and if the attendance pattern provides for periods of full-time participation in lectures, seminars and group project work.

The course has been structured around the core subjects, Planning 1, 2 and 3.

These subjects consist primarily of a continuing planning project; content and organisation are described in detail below. The other subjects have been structured to provide knowledge, context, concepts and techniques which can be applied in the project work.

### QUALIFICATIONS FOR ADMISSION

To be eligible for entry an applicant should possess an appropriate first degree and at least three years' relevant experience. Appropriate first degrees would include a Bachelor's degree in planning, architecture, geography, economics, land economics, commerce, law, engineering and building. Other qualifications may be accepted if supported by extensive relevant work experience. Work experience is relevant if it includes the holding of a responsible position related to the planning or administration of land, or the design, financing, regulation, construction or management of buildings or infrastructure.

### STRUCTURE

The Graduate Diploma in Planning requires the completion of subjects totalling 48 credit points, by attending eight week-long sessions over two years.

The Master of Planning requires the completion of 72 credit points over three years; ten week-long sessions in the first two-and-a-half years of the course and attendance for the equivalent of two weeks in the last half year.

### COURSE STRUCTURE

Credit points are shown in brackets.

#### Year 1: Graduate Diploma and Master's degree

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17510	Planning 1 (8cp)
17511	Urban Economics and Finance 1 (4cp)
17516	Environment and Infrastructure 1 (4cp)
17513	Urban Design and Management 1 (4cp)

59337 <sup>1</sup>	Sociology and Planning (2cp)
17515 <sup>2</sup>	Environmental Law (2cp)

#### Year 2: Graduate Diploma and Master's degree

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17520	Planning 2 (8cp)
17521	Urban Economics and Finance 2 (4cp)
17522	Environment and Infrastructure 2 (4cp)
17523	Urban Design and Management 2 (4cp)
59336 <sup>1</sup>	Politics and Planning (2cp)
17525 <sup>2</sup>	Property and Development Law (2cp)

#### Year 3: Master's degree

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17530	Planning 3 (4cp)
17751	Specific Issues in Planning (4cp)
17755	Graduate Project (Planning) (16cp)

<sup>1/2</sup>These subjects alternate with each other in successive years.

## Master of Project Management

Project Management has emerged as a powerful method for administering complex tasks. It has been used to manage most of the large building and construction projects in this country. It is increasingly used in other industries and technologies to facilitate efficient and effective completion of complex tasks. As projects have become more complex and costly the need for greater efficiency in terms of cost, time and quality performance has become evident. Good management practices are generally enhanced by a sound appropriate educational background. The purpose of the course is to provide such a background.

### AIM

The aim of this course in Project Management is to produce project managers who will be:

- (a) competent to lead a group of specialist professionals engaged in the overall management planning and control of projects, particularly in building or civil engineering, but not excluding other industries or technologies;
- (b) able to demonstrate an understanding of project management principles and practices in the management of the design and construction process and project delivery;
- (c) able to demonstrate an understanding of the roles and practices of specialist consultants and contractors used in the design and construction of projects and how these can be effectively integrated;
- (d) able to communicate effectively, and lead and motivate individuals and project teams;
- (e) able to make decisions on the basis of either complete or incomplete information, and to formulate policies and/or solutions to complex problems;
- (f) able to satisfy economic, social, financial, legal, environmental and building constraints;
- (g) able to estimate the social costs and benefits of development and the community acceptance of this.

### QUALIFICATIONS FOR ADMISSION

To be eligible for entry an applicant should possess an appropriate first degree. Graduates in architecture, building, quantity surveying or engineering will be required to have a minimum of five years' work experience. Graduates from other disciplines who have had at least seven years' experience in project or project related activities, and can demonstrate appropriate knowledge of a relevant industry or technology, may also be admitted.

### STRUCTURE

The three-year, part-time or two-year, full-time program, unique to Australia, has been designed with ten week unit attendance sessions so that senior executives and industry leaders can attend the course with minimal disruption to their working lives.

The course consists of three parts. The first part contains the core subjects of generic project management, that is, project management which is independent of industry or technology. This will be presented by way of coursework and assignments occupying the whole of the first six week units.

The second part comprises significant blocks of the core subjects treated in greater detail, and on an industry-specific basis, with the building/construction industry as the primary exemplar industry. This will be presented in the same way as before except that other alternative learning methods will be employed. This occupies a further four week units.

The final 'semester' is set aside for the completion of a major project. In summary, the course structure resembles a project: the project process, its context and the management thereof.



## COURSE STRUCTURE

Credit points are shown in brackets.

### Three-year part-time program

#### Year 1

- 
- 17101 Project Process 1 (7cp)  
 17105 Project Management Studies 1 (5cp)  
 17201 Project Process 2 (7cp)  
 17205 Project Management Studies 2 (5cp)

#### Year 2

- 
- 17301 Project Process 3 (7cp)  
 17305 Project Management Studies 3 (5cp)

*and one option from the following*

- 17401 Building and Construction Project Process (7cp)  
 17405 Building and Construction Project Management Studies 1 (5cp)

*or*

Elective(s)<sup>1</sup> (12cp)

*or*

- 17507 Industry Project Studies 1 (12cp)

#### Year 3

*one option from the following two*

#### Option One:

- 17600 Graduate Project (MPM) P/T (18cp)

*and*

- 17506 Building and Construction Project Management Studies 2 (6cp)

*or*

Elective(s)<sup>1</sup> (6cp)

#### Option Two:

- 17508 Industry Project Studies 2 (12cp)  
 17509 Industry Project Studies 3 (12cp)

### Two-year full-time program

#### Year 1

- 
- 17101 Project Process 1 (7cp)  
 17105 Project Management Studies 1 (5cp)  
 Elective(s) (6cp)  
 17201 Project Process 2 (7cp)  
 17205 Project Management Studies 2 (5cp)  
 17601 Graduate Project (MPM) F/T (6cp)

#### Year 2

- 
- 17301 Project Process 3 (7cp)  
 17305 Project Management Studies 3 (5cp)  
 17401 Building and Construction Project Process (7cp)  
 17405 Building and Construction Project Management Studies 1 (5cp)  
 17601 Graduate Project (MPM) F/T (12cp)

Electives may be selected from the following Faculty Postgraduate subjects.

- 12170 Building Assessment (6cp)  
 12174 Special Issues in Building Surveying and Assessment (6cp)  
 12570 Urban Regeneration Process 1 (6cp)  
 12584 Urban Architecture (6cp)  
 12587 Economics (MBEnv) (6cp)  
 12588 Design Management 1 (6cp)

<sup>1</sup> Electives may be selected from other existing subjects within the Faculty or comprise a series of topics selected by the student in consultation with the Course Director.

## POSTGRADUATE SUBJECT DESCRIPTIONS

### Guide to subject descriptions

The subject descriptions shown below indicate the subject code and name, the number of credit points for the subject (e.g. 3cp). For some subjects, there may also be practical components off campus, and this is indicated in the text. Also shown are the prerequisites and/or corequisites if any, and a brief outline of the content.

Prerequisites are subjects which must be completed before taking the subject to which they refer. Corequisites are subjects which must be completed before or be taken concurrently with the subject to which they refer.

### 12115

#### BUILDING SCIENCE AND ENVIRONMENTAL FACTORS

4cp

Examines the theory of building environmental performance and applies the theory to issues of building occupant and public health and safety.

### 12157

#### RISK MANAGEMENT AND LOCAL GOVERNMENT

3cp

Risk assessment techniques and regimes, quantitative methods, risk reduction and management, approvals and risk, decision making in approvals process.

### 12158

#### CODES AND STANDARDS 1

2cp

Performance concepts, performance versus prescriptive provisions, appraisal methods, intent of codes and regulations, regulation-making process, Building Code of Australia, engineered approach for existing buildings, discretion and liability.

### 12164

#### FIRE ENGINEERING 1

3cp

Chemistry and physics of fire, fire initiation and development, design fires, passive fire protection, smoke management, radiant heat assessment.

### 12165

#### STRUCTURAL PERFORMANCE

3cp

Structural behaviour under extreme loading and fire behaviour of materials at elevated temperatures, degradation of materials' properties and antique building materials, refurbishment issues and quality assurance.

### 12167

#### LEGAL PROCEDURES 3

2cp

Professional statutory responsibility, negligence, liability in contract and tort, statutory time limitations, integration of development, building and health matters, case studies.

### 12168

#### DEVELOPMENT CONTROL INTERFACE

4cp

Development control as a system for managing the urban environment featuring the origins of development control, development control and conflict, the nature of rules, review of decisions, the urban designer's view of a place, the planner's view of a site, case studies, the heritage assessment process, planning as an ongoing process, the values of planning and public participation.

### 12169

#### FIRE ENGINEERING 2

3cp

Occupant behaviour and egress in fires, detection and early warning systems, emergency lighting, active fire protection, maintenance of essential services, regulations, basic risk assessment.

**12170****BUILDING ASSESSMENT***6cp*

Building services, maintenance, technological change, diagnostic, security systems and assessment practice.

**12171****CERTIFICATION PROCESS AND PRACTICE***4cp*

Principles of / criteria for certification, qualifications, appropriate processes, management and coordination of professional groups, negotiation, accreditation, legal issues in practice, professional practice (code of ethics).

**12172****CODES AND STANDARDS 2***2cp*

Drafting of building regulations, policies and codes, preparation of explanatory documents and commentaries, appropriate styles, case studies.

**12174****SPECIAL ISSUES IN BUILDING SURVEYING AND ASSESSMENT***6cp*

Completion of the subject will enable students to conduct research into specific issues confronting the professional building surveyor in practice and to present their findings to their peers in a comprehensive report and paper, to a standard suitable for publication in a referred journal. Possible topics include healthy buildings, environmental safety, building performance and life costs, planning for emergencies in local precincts, minimisation of the greenhouse effect through effective planning controls.

**12511****BUILDING TECHNOLOGY***3cp*

This subject highlights some of the technological principles of the

construction and operation of major buildings in order to introduce entrants, who have not come from an architectural, building, engineering or quantity surveying background, to these areas. The main systems are isolated and various forms for each are discussed in the context of the development process and maintenance. Examples of typical building types are discussed.

**12515****PROPERTY ECONOMICS 1***3cp*

An introduction to aspects of macroeconomics and microeconomics relevant to property development and property management.

**12516****URBAN SOCIOLOGY***2cp*

Social theory: analysis of theories; individual theories examined; contributions of theories to understanding society. Social values in Australia: effects of values and socialisation on behaviour; norms. Poverty and social justice: history; interpretation of concept. Housing in Australia: desired attributes; government policies. Public participation in community development.

**12517****PROPERTY MANAGEMENT***3cp*

Appraisal of rent collection procedures and policies. Administration of tenancies and leases. Compensation. Taxation. Risk management. Investment portfolio analysis and management. Social responsibilities. Maintenance and building management. Acquisition and disposal. Budgeting and accounting requirements.

**12518****LEGAL PROCEDURES 1***3cp*

A short course in property law, both real and personal, and although it begins with contracts and ends with the contract for sale of land it contains an intensive coverage of many of the major principles relating to property law in NSW.

**12524****PROPERTY DEVELOPMENT MANAGEMENT 1***3cp*

Organisations as systems, building procurement, client needs determination, management of the development process, development of organisations.

**12525****PROPERTY ECONOMICS 2***3cp*

Examines acquisition and disposal techniques for single property assets; applying traditional and contemporary methods of investment performance analysis such as capitalisation rates, rates of return and property sector market analysis.

**12527****PROPERTY FINANCE***3cp*

Computer application of property taxation and general accounting principles, discounted cash flow and risk management techniques. Sources of property finance.

**12528****LEGAL PROCEDURES 2***3cp*

The primary focus of this course will be legislative building control, subdivision, changes in use and other matters relating to local government. Operation of the Land and Environment Court will be covered and some time will be devoted to landlord and tenant matters

and aspects of common law relating to ownership of real property.

**12535****PROPERTY ECONOMICS 3***3cp*

The preparation of economic feasibility studies for individual projects including detailed analysis of income/expenditure and required rates of return, methods for determining the impact of critical variables.

**12542****MARKETING***2cp*

The student will be able to understand the role played by marketing generally and be able to apply it to all aspects of urban estate management.

**12543****PROPERTY DEVELOPMENT MANAGEMENT 2***4cp*

Integration of the property development process from initiation of development proposal to completion of project in case studies and assignments. Aspects of professional practice: ethics, professional indemnity. Industrial relations: the Australian system; unions, employer organisations.

**12545****PROPERTY ECONOMICS 4***4cp*

Corporate strategy, investment market and portfolio analysis, property investment as a component, investment portfolio management, financing and risk management.

**12549****ORGANISATIONAL POLICY AND MANAGEMENT**

2cp

Provides informed perspective of the corporate function; the formulation of objectives, policy and strategy; how corporate plans and strategic plans are prepared as an outgrowth of objectives and policy; the various styles of management with emphasis on the suitability of each; team building; the recruitment of executive and senior management personnel; the purpose, formation, and management of joint ventures.

**12550****PROJECT (UEM)**

6cp

Topics selected by students dealing with Urban Estate Management.

The UEM Project may be substituted for any two subjects in the course, totalling 6 credit points, subject to approval by the Program Director.

**12551****URBAN LAND USE AND PLANNING**

3cp

The main forces shaping urban land use, the main issues this produces, the land use planning response, the main methods of urban planning, focus on localities and regions, the environmental, economic and social forces which lie behind the policies and restrictions produced by planning agencies.

**17101****PROJECT PROCESS 1**

7cp

Introduction to the four major generic phases of the project process (sometimes called the project life cycle); discussion of the first of these phases, project initiation

and concept, in detail. Including basic needs determination, feasibility of alternative solutions, leading to product requirement determination, and approvals.

**17105****PROJECT MANAGEMENT STUDIES 1**

5cp

Examination of the first four generic project management functions most relevant to Project Process 1: time, cost, quality and risk management, plus the management of integration of these functions. Identification of the general environmental constraints which impinge on projects, and examination of some aspects most relevant to 17101 Project Process 1, including economic constraints. The project organisation as an open system; the five primary sub-systems, namely goals and values, structural, psychosocial, technology and management.

**17201****PROJECT PROCESS 2**

7cp

The second of the four major generic phases of the project process: project planning and development, including institution of planning and controls, concept development, design and documentation, prototyping and approvals.

**17205****PROJECT MANAGEMENT STUDIES 2**

5cp

Examination of three further generic project management functions which are particularly relevant to 17201 Project Process 2: management of project scope, decision making and project organisation. Examination of three further environmental constraints identified in 17101 Project Process 1, namely financial, political and legal constraints. Economic and financial aspects as they apply specifically to projects.

**17301****PROJECT PROCESS 3***7cp*

The third and fourth of the four major generic project processes: project execution and implementation, and project commissioning and handover.

**17305****PROJECT MANAGEMENT STUDIES 3***5cp*

Examination of the three remaining generic project management functions: the management of project human resources, its closely associated function, communications, and the management of project contracts and procurement. Examination of the last two of the environmental constraints identified in 17101 Project Process 1: sociological/demographic and physical; and marketing and technology in the context of projects. Legal aspects applying specifically to projects and project organisations; some specific aspects of marketing at the project level; corporate social responsibility in project management; and computer applications in project management.

**17401****BUILDING AND CONSTRUCTION PROJECT PROCESS***7cp*

The four phases of the project process as they apply specifically to building and construction: initiation and concept, planning and development, project execution and implementation, and project commissioning and handover.

**17405****BUILDING AND CONSTRUCTION PROJECT MANAGEMENT STUDIES 1***5cp*

Examination of seven of the basic project management functions as they apply specifically in building and construction: time, cost, quality, risk and scope management, management of

project decision making, and management of project organisations. Examination of certain factors and constraints which are especially relevant to building and construction projects, namely town planning principles, building project law, approvals management, construction economics and finance, and aspects of construction technology. Detailed examination of two specific topics from the project process which are particularly important in the context of building and construction, namely feasibility studies, and aspects of property management and project marketing.

**17516****ENVIRONMENT AND INFRASTRUCTURE 1***4cp*

The physical environment and development: ecology, geomechanics, climate and noise measurement, with an examination of erosion, water pollution, solar access, air quality, wind effects and noise pollution; the source of environmental design criteria for urban development. Managing movement: current and projected practice in transportation engineering, traffic management, public transport provision and the design, construction and maintenance of roads; paratransit; pedestrian requirements and opportunities.

**17506****BUILDING AND CONSTRUCTION PROJECT MANAGEMENT STUDIES 2***6cp*

An examination of the remaining basic project management functions as they apply specifically to building and construction projects: management of project resources; management of project human resources; management of project communications, including building project negotiation; and management of construction project contracts and procurement. Detailed examination of three further topics of particular importance for building and construction projects: planning methods

and techniques; post-project analysis; and occupational health and safety. Examination of industrial relations and related matters in the context of building and construction: industrial arbitration, organisations and policies, dispute resolution and cost of disputes.

### **17507**

#### **INDUSTRY PROJECT STUDIES 1**

*12cp*

### **17508**

#### **INDUSTRY PROJECT STUDIES 2**

*12cp*

### **17509**

#### **INDUSTRY PROJECT STUDIES 3**

*12cp*

On completion of this strand of subjects students will be able to apply, test and evaluate the model of the project process together with the principles, concepts, ideas, practices and contextual issues and constraints that underpin the discipline of project management as described in the Project Management Body of Knowledge, to an industry of their choice.

This will be accomplished via the preparation of a comprehensive case study that will include a model capable of measuring project success and continuous internal process movement.

The whole case study will include a study of the potential of Quality Management for the design and control of the process or processes within the project.

The three subjects comprise the following:

Industry Project Studies 1

– Initiation and Concept

Industry Project Studies 2

– Planning and Development

Industry Project Studies 3

– Implementation, Commissioning and Handover.

### **17510**

#### **PLANNING 1**

*8cp*

In the first semester, the investigation of a major and complex site, through the documentation of its physical characteristics and its social and environmental context; the development of ideas for the site; the preparation of briefs and contracts; the development of skills in relevant aspects of planning practice. In the second semester, the analysis of the planning issues relating to the chosen site, through a study of the opportunities and constraints, an analysis of the political context, the development of strategies and the generation of options; the development of skills in relevant aspects of planning practice.

### **17511**

#### **URBAN ECONOMICS AND FINANCE 1**

*4cp*

The concepts of microeconomics and macroeconomics, and the analysis of externalities in an urban and regional context; the institutionalist and property rights approaches to land use regulation; market analysis and appraisal. The nature of the Australian economy; understanding the property market; techniques of cost-benefit analysis; the nature of a local economy.

### **17513**

#### **URBAN DESIGN AND MANAGEMENT 1**

*4cp*

Historiography; urban history, the history of State and local government in NSW, and local history. Aspects of the history of State regulation of urban development, of the history of town planning and the planning profession, and of the ideologies of planning. An introduction to the history of ideas of the city and of city form; aspects of the history of building and urban development; past and present attitudes and approaches to the management of the

urban design process; principles, criteria and values used in urban design.

### **17515**

#### **ENVIRONMENTAL LAW**

*2cp*

Environmental law and its operation in the Australian federal system; Commonwealth-State relationships; air, water, waste, and heritage law; the law and practice of environmental impact assessment; relevant principles of administrative law; implications for government.

The role of the relevant courts and the nature of environmental litigation; changes in the treatment of standing; practice and procedure of the Land and Environment Court of NSW.

Current issues and controversies in environmental law and policy.

### **17520**

#### **PLANNING 2**

*8cp*

In the first semester, the assessment of planning options for the chosen site, through an evaluation of alternatives, an analysis of feasibilities, an assessment of impacts, and an analysis of benefits and costs; the development of skills in relevant aspects of planning practice. In the second semester, the preparation of final plans for the chosen site: goals and objectives, policies, implementation mechanisms, visualisation; the presentation and promotion of the plan; the development of skills in relevant aspects of planning practice.

### **17521**

#### **URBAN ECONOMICS AND FINANCE 2**

*4cp*

The analysis of location as a factor in urban development; methods and purposes of carrying out feasibility studies; market analysis and valuation; costings and estimating rates of return. Urban and regional economic issues: as a demonstration of economic method

and so as to examine a topic in depth, one of the following topics will be studied: housing, recreation, tourism, transportation, public sector finances, the incidence of infrastructure costs.

### **17522**

#### **ENVIRONMENT AND INFRASTRUCTURE 2**

*4cp*

Management of land and services: the principles of soil and nature conservation and catchment management; the cultural significance of natural and historic environments, and heritage conservation; the design, construction and operation of water supply, sewerage, drainage, gas, electricity and telecommunications systems. Current practice in the design and management of infrastructure: the values, concepts and methods used in engineering and related professions; the use of warrants and specifications, and approaches used in the design, construction, operation and maintenance of infrastructure and other elements in the built environment; the strengths and limitations of these practices.

### **17523**

#### **URBAN DESIGN AND MANAGEMENT 2**

*4cp*

The development process: the principles of the management of development and construction processes; the roles of the various players in urban development. Planning administration: the management of public sector planning agencies and the roles of planning staff; professional practice management. The institutional context: case studies of the structure and operations of the Department of Planning, a major municipality, a major financial institution, and a major developer.



**17525****PROPERTY AND DEVELOPMENT LAW***2cp*

Aspects of property law including occupier's liability, tenancy, resumption and compensation; nuisance law as it relates to planning and the environment. Planning and development law including legislative framework, comparative models and intergovernmental relations; health and building control issues and related issues in planning; developer contributions.

Current issues and controversies in planning and development law.

**17530****PLANNING 3***4cp*

The integration of the work of the previous four semesters in relation to the chosen site; an examination of the costs and impacts of the planning and regulatory mechanisms; a review of the decision-making processes; the development of skills in relevant aspects of planning practice.

**17600 P/T**

and

**17601 F/T****GRADUATE PROJECT (MPM)***18cp*

A major study, undertaken by each student individually involving a detailed study of an individual topic and the preparation of a comprehensive report.

**17751****SPECIFIC ISSUES IN PLANNING***4cp*

Planning in the contemporary world of electoral politics, bureaucracies, business, resident action and environmental campaigns: the detailed analysis of a small number of specific current issues.

**17755****GRADUATE PROJECT (PLANNING)***16cp*

The graduate project consists of a major planning project based on a real site. The project will be carried out by a project team. Each team member is responsible for a component which is assessed both on the quality of the work and on its integration with the work of the other members of the team. The coordinating examiner may permit a student to work with only one other student or individually, where the above approach is not feasible in any particular case.

**59336****POLITICS AND PLANNING***2cp*

This unit provides students in planning disciplines with an introduction to the perspectives of political theory, and the techniques of political analysis. Topics include theories of the state, the emergence of structures of decision making, urban managerialism, the politics of public participation, community politics and local government. Concepts of modernity and post-modernism are used to situate analysis of urban political action into socio-cultural contexts.

**59337****SOCIOLOGY AND PLANNING***2cp*

This unit provides students in planning disciplines with an introduction to the perspectives of the social sciences and the techniques of sociological investigation. Topics include the emergence of the modern city, the development of the spatial pattern, environmental perception, issues in housing, labour markets, tourism and migration, and current social and demographic trends.

## POSTGRADUATE COURSE REGULATIONS

Students are advised to refer to the University *Calendar* for the **Rules Relating to Students Enrolled in Particular Award Courses**. The Faculty Board has also determined the following.

### GRADED AWARDS IN GRADUATE DIPLOMA COURSES

Graded awards in Graduate Diploma courses (except for the Graduate Diploma in Planning) may be recommended by the Faculty Board for meritorious performance. Any such award is entirely within the discretion of the Faculty Board and the numeric calculation of level of performance is only one of the matters taken into consideration. The Faculty Board would not normally consider for graded awards any student who has not obtained the following numeric levels on the basis of a weighted average mark over the whole of the course.

75 and above	–	with distinction
65 to less than 75	–	with credit

### DISCONTINUATION OF REGISTRATION

The registration of a Graduate Diploma or Master's candidate may be discontinued if the Faculty Board is dissatisfied with his/her progress.

Faculty Board may deem unsatisfactory progress to include:

- i) failure in any two subjects;
- ii) failure in a subject twice.

## FACULTY RESEARCH DEGREES

The Faculty offers both PhD and Master's programs by research and thesis in areas that relate to the three disciplines of the Faculty.

### Master of Architecture

### Master of Applied Science

### Master of Design

A limited number of places is offered each year to suitably qualified students to follow a program of study leading to one of the above awards. These degrees are for graduates seeking to extend and deepen their knowledge by undertaking an appropriate research investigation under professional supervision by academic staff of the Faculty.

To qualify for admission to a Master's degree (by thesis), applicants should possess a Bachelor's degree or equivalent, and be proficient in English. Non-graduates with outstanding professional qualifications and experience may also apply, provided they can demonstrate their capacity to pursue graduate studies. Prior to admission, applicants are required to submit a thesis topic which should be discussed with and agreed to by the Associate Dean (Research) or nominee.

The requirement of the degree is the preparation of a thesis which is judged by its examiners to be a distinct contribution to the knowledge of the subject whether by original investigation or by review, criticism or design.

Candidates may be required in the first instance to undertake coursework subjects in research methodology, to gain exposure to and experience with research methods and skills. They may also be required to present papers, which form part of the preparation of their thesis, at the Faculty Postgraduate Seminars.

The minimum duration for a Master's degree (by thesis) is two years full-time or three years part-time.

## Doctor of Architecture

The Doctor of Architecture program is intended to enable architects whose work is made public by construction, rather than in print, to receive academic recognition for their work when substantiated by a theoretical discourse at a doctoral level.

To qualify for admission, applicants should have a degree in architecture, with Honours or equivalent, and extensive experience and achievement in architectural practice. Applicants are required to submit a documented portfolio of their built and projected works, over a period of at least the previous six years. Applicants without a minimum of six years' professional experience will not be considered.

The architectural work produced prior to and during the period of enrolment forms the substance of the student's program. Candidates submit their work progressively during their enrolment period. For final assessment, candidates submit a portfolio of documented work, plus a theoretical dissertation of approximately 30,000 words.

The attendance pattern for this doctorate is six years part-time or three years full-time.

## Doctor of Philosophy

The PhD is a University-wide degree which involves an intense period of supervised study and research, culminating in the submission of a thesis. The degree is awarded to candidates who, through original investigation, make a distinct and significant contribution to knowledge in their field of specialisation.

To qualify for admission to a Doctoral degree program, applicants should possess a Bachelor's degree with First Class Honours, Division One, and experience in research or a Master's degree from UTS, or equivalent.

The PhD applicant's proposed area of research should be within one of the

disciplinary areas of the Faculty. Applicants are advised to discuss in detail their proposals with the Associate Dean (Research) or nominee.

In submitting an application, applicants should include an outline of their research proposal, detailing the aims, objectives, methodology and required resources/facilities.

During the period of enrolment, candidates are supervised by appropriate academic staff members appointed by the Faculty. Candidates are required to present papers on their thesis topic at Faculty postgraduate seminars. Candidates are also invited to participate in other research activities occurring in the Faculty.

The minimum duration for a PhD program is 2-3 years full time, and 3-4 years part time (depending on whether the candidate is the holder of a Bachelor's or Master's degree).

### GENERAL

Applicants for all of the above courses are advised to consult the *Calendar* for details relating to eligibility for admission, submission of thesis etc. Information may also be obtained from the University's Postgraduate Studies and Scholarships Office.

Prospective applicants should discuss possible topics of research with the relevant Associate Dean or nominee in the first instance. Advice on whom to contact is available from the Faculty Office.

## SUBJECT NAMES IN ALPHABETICAL ORDER

2D and 3D Communication	82017	Computer Graphics 1	81024
3D Computer Animation 1	81925	Computer Graphics 2	81924
3D Computer Animation 2	81030	Computers and Design 3	88501
Aboriginal and Torres Strait Islander Art and Culture 1	80039	Computers and Design 4	88601
Aboriginal and Torres Strait Islander Art and Culture 2	80040	Construction 1	11011
Advanced Computer-aided Design	81840	Construction 1	16115
Advanced Valuation Methods	16353	Construction 2	11021
Appraisal and Statistics	16163	Construction 2	16116
Appropriate Technology	82015	Construction 3	11031
Architectural Experience	13998	Construction 3	16117
Architectural Practice 1A	11048	Construction 4	16118
Architectural Practice 1B	11049	Contextual Studies 1	16601
Architectural Practice 2A	11058	Contextual Studies 1A	11014
Architectural Practice 2B	11059	Contextual Studies 1B	11015
Architectural Practice 3A	11068	Contextual Studies 1C	11016
Architectural Practice 3B	11069	Contextual Studies 2	16602
Building and Construction Project Management Studies 1	17405	Contextual Studies 2A	11024
Building and Construction Project Management Studies 2	17506	Contextual Studies 2B	11025
Building and Construction Project Process	17401	Contextual Studies 2C	11026
Building Assessment	12170	Contextual Studies 3B	11035
Building Design	16611	Contextual Studies 3C	11036
Building Economics 1	16521	Contextual Studies 4B	11045
Building Economics 2	16522	Contextual Studies 4C	11046
Building Economics 3	16523	Contextual Studies 5B	11055
Building Experience (F/T)	16197	Contextual Studies 5C	11056
Building Experience (P/T)	16198	Contract Administration	16411
Building Science	16711	Creative Writing 1	51002
Building Science and Environmental Factors	12115	Creative Writing 2	51006
Building Technology	12511	Design 1	11012
Building Technology (MBEnv)	12586	Design 1	85000
Building Technology	16153	Design 2	11022
Certification Process and Practice	12171	Design 3	11032
Cinema and TV Studies	80056	Design 4	11042
Client Presentation	80073	Design 5	11052
Codes and Standards 1	12158	Design 6	11062
Codes and Standards 2	12172	Design and Society	89104
Communication Technology	81021	Design and Technology	89919
Communications	51388	Design Case Studies 1	89912
Computations	16211	Design Case Studies 2	89013
Computer-aided Design	81922	Design Decision Making	82004
		Design Evaluation	16621
		Design For Theatre 1	88312
		Design For Theatre 2	88412
		Design For Theatre 3	88512
		Design For Theatre 4	88612
		Design History	81025
		Design History 1	80051
		Design History 2	80071

Design Management 1	12588	Environment and	
Design Management 2	12589	Infrastructure 2	17522
Design Management 3	12590	Environmental	
Design Practice 1	89914	Communications 1	88302
Design Practice 2	89012	Environmental	
Design Project (F/T)	89918	Communications 2	88402
Design Project (P/T)	89917	Environmental	
Design Project	12583	Communications 3	88502
Design Project F&T 2	83220	Environmental	
Design Project F&T 3	83330	Communications 4	88602
Design Project F&T 4	83440	Environmental Design	16652
Design Project F&T 5	83550	Environmental Law	17515
Design Project F&T 6	83660	Environmental Planning	16622
Design Project F&T 7	83770	Environmental Systems	80072
Design Project ID 2	84220	Estimating 1	16531
Design Project ID 3	84330	Estimating 2	16532
Design Project ID 4	84440	Facility Evaluation	16155
Design Project ID 5	84550	Film and Television	
Design Project ID 6	84660	Documentary	80079
Design Project ID 7	84770	Film and Video Design 1	88308
Design Project IT 2	86220	Film and Video Design 2	88408
Design Project IT 3	86330	Film and Video Design 3	88503
Design Project IT 4	86440	Film and Video Design 4	88603
Design Project IT 5	86550	Financial and Trust Accounting	16552
Design Project IT 6	86660	Fire Engineering 1	12164
Design Project IT 7	86770	Fire Engineering 2	12169
Design Project VC 2	87220	Furniture Design 1	88311
Design Project VC 3	87330	Furniture Design 2	88411
Design Project VC 4	87440	Furniture Design 3	88511
Design Project VC 5	87550	Furniture Design 4	88611
Design Project VC 6	87660	Graduate Project (MPM) F/T	17601
Design Project VC 7	87770	Graduate Project (MPM) P/T	17600
Design Research	12582	Graduate Project (Planning)	17755
Design Seminar	82912	Graphic Visualisation	82016
Design Systems	80052	Human Factors and Design	82009
Desktop Publishing	81022	Illustration 1	88304
Development Control Interface	12168	Illustration 2	88404
Development Management	16453	Illustration 3	88504
Drawing and Surveying	16201	Illustration 4	88604
Economic Analysis	16513	Industry Project Studies 1	17507
Economic Management 1	16511	Industry Project Studies 2	17508
Economic Management 2	16512	Industry Project Studies 3	17509
Economics (MBEnv)	12587	Industry Studies	16300
Economics	16551	Innovation Management and	
Elective Project	11071	Design	81921
Elective Studies	11066	International Real Estate	16751
Environment and		Introduction to Design	
Infrastructure 1	17516	Computing	81923
		Introduction to Law	16851

Introduction to Valuation	16351	Popular Culture	80053
Investment and Portfolio Management	16454	Professional Practice	16131
Land Economics Experience (F/T)	16997	Professional Practice Review	16455
Land Economics Experience (P/T)	16998	Project	16221
Land Studies 1	16150	Project	16961
Law (MBEnv)	12585	Project (UEM)	12550
Legal Procedures 1	12518	Project Management Studies 1	17105
Legal Procedures 2	12528	Project Management Studies 2	17205
Legal Procedures 3	12167	Project Management Studies 3	17305
Legal Studies 1	16801	Project Process 1	17101
Legal Studies 2	16802	Project Process 2	17201
Major Project F&T	83880	Project Process 3	17301
Major Project ID	84880	Property and Development Law	17525
Major Project IT	86880	Property Development Management 1	12524
Major Project VC	87880	Property Development Management 2	12543
Management 2	16402	Property Economics 1	12515
Management 3	16403	Property Economics 2	12525
Management 4	16404	Property Economics 3	12535
Management 5	16405	Property Economics 4	12545
Management 6	16406	Property Finance	12527
Management Techniques and Design	81020	Property Management	12517
Market Research	80070	Property Management and Maintenance	16456
Marketing	12542	Psychology of Design	82901
Marketing	80050	Quantities 1	16541
Marketing and Design	81920	Quantities 2	16542
Material Science	16721	Quantity Surveying 1	16501
Materials 1	16701	Quantity Surveying 2	16502
Materials 2	16702	Quantity Surveying 3	16503
Materials and Systems	11013	Quantity Surveying Experience (F/T)	16597
Mathematics and Statistics	16161	Quantity Surveying Experience (P/T)	16598
Media Studies	51007	Quantity Surveying Practice	16506
Organisational Policy and Management	12549	QS Project	16224
Photography 1	88305	QS Project (Summer)	16225
Photography 2	88405	Real Estate Finance	16553
Photography 3	88505	Real Estate Fundamentals	16361
Photography 4	88605	Real Estate Law and Conveyancing	16854
Photography and Video	82914	Real Estate Organisation and Management Theory	16452
Photography for Designers	82915	Research Dissertation F&T	83780
Planning 1	17510	Research Dissertation ID	84780
Planning 2	17520	Research Dissertation IT	86780
Planning 3	17530	Research Dissertation VC	87780
Planning and Environmental Law	16853	Research Methods	82905
Politics and Planning	59336		

Research Seminar	82013	Structures 3	16903
Risk Management and Local Government	12157	Surveying	16152
Rural Valuation	16354	Technological Change	82903
Services 1	11017	Textile Design 1	88306
Services 1	16301	Textile Design 2	88406
Services 2	11027	Textile Design 3	88506
Services 3	11037	Textile Design 4	88606
Services 4	11047	Transportation Design 1	88309
Social Theory and Australian Society 1	51003	Transportation Design 2	88409
Social Theory and Australian Society 2	51008	Transportation Design 3	88509
Sociology (MBEnv)	12564	Transportation Design 4	88609
Sociology and Planning	59337	Urban Architecture	12584
Sociology of Design	82902	Urban Design and Management 1	17513
Special Issues in Building, Surveying and Assessment	12174	Urban Design and Management 2	17523
Special Studies 1	82913	Urban Economics	16554
Special Studies 2	82014	Urban Economics and Finance 1	17511
Specialised Valuation Topics	16355	Urban Economics and Finance 2	17521
Specific Issues in Planning	17751	Urban Land Use and Planning	12551
Statutory Valuation and Litigation	16356	Urban Planning	16651
Structural Analysis 1	11023	Urban Regeneration Process 1	12570
Structural Analysis 2	11033	Urban Regeneration Process 2	12575
Structural Design	11043	Urban Regeneration Process 3	12579
Structural Performance	12165	Urban Sociology	12516
Structures 1	16901	Valuation Methodology	16352
Structures 2	16902	Video for Designers	82916
		Visual Perception	80076

## **FACULTY BOARD IN DESIGN, ARCHITECTURE AND BUILDING**

### **Ex officio members**

*Dean of the Faculty*

Associate Professor G Caban (Chair)

*Head, School of Design*

Professor D Freeman

*Head, School of Architecture*

Associate Professor W Barnett

*Head, School of Building Studies*

Professor D Lenard

*Professors*

Professor N Quarry

### **Nominated members**

*University Librarian's representative*

Ms J Slater

*Centre for Learning and Teaching*

Ms J McKenzie

*Faculty Board in Business*

Vacant

*Faculty Board in Education*

Ms Z Wagner

*Faculty Board in Engineering*

Associate Professor S Johnston

*Faculty Board in Humanities and Social  
Sciences*

Professor S Muecke

Dr N Neumark (alternate)

### **Elected staff members**

*School of Design*

Mr D Denne

Mr R Hayes

Ms V Horridge

Mr T Laurence

Ms L Marchant

Mr J Muir

Mr K Smith

Associate Professor D Tomkin

Mr R Trembath

Ms J Wilson

*School of Architecture*

Mr P Cantrill

Mr A Caro

Mr S Harfield

Mr B Jobson

Ms D Jones

Mr K Pearson-Smith

Dr J Phillips

Mr D Springett

Dr P Towson

*School of Building Studies*

Mr P Clarke

Mr J Dawkins

Mr G de Valance

Mr P Healy

Mr K Heathcote

Mr A Karantonis

Mr C Langston

Dr J Oluwoye

Associate Professor C Roberts

Mr P Smith

*Support staff*

Ms A Bastock

Mr G Moor

Ms S Hewson

### **Elected student members**

*School of Design*

Ms V Marteau

*School of Architecture*

Vacant

*School of Building Studies*

Mr N Stergiou

*Postgraduate Studies*

Ms S Carnicelli

**NOTE:** The Faculty is currently reviewing the membership of the Faculty Board and anticipates implementing new membership categories in 1995.



## **COURSE ADVISORY COMMITTEES**

### **COURSE ADVISORY COMMITTEE (DESIGN)**

*Chairperson*

Mr M Bryce

*Dean of the Faculty*

Associate Professor G Caban

*Head of School*

Professor D Freeman

*Staff of the School*

Ms V Horridge

Mr T Laurence

Associate Professor D Tomkin

Ms J Wilson

*Representatives from the professions*

Mr G Bennett

Mr S Richardson

Mr E Yabsley

Mr K White

*Recent graduates*

Mr A Cassar

Mr P Lelievre

Ms D Lorentz

Ms L Naar

Ms M Purdy

### **COURSE ADVISORY COMMITTEE (ARCHITECTURE)**

*Chairperson*

Mr D Gazzard

*Dean of the Faculty*

Associate Professor G Caban

*Head of School*

Associate Professor W Barnett

*Staff of the School*

Professor N Quarry

*Representatives from the profession*

Mr R Dyke

Mr G Jahn

Mr C Johnson

Mr M Willett

*Academic representative*

Professor J Lang

*Representatives from professional bodies*

Mr R Fuller

Mr K Maher

Mr P Hardiman

*Recent graduates*

Ms M McGlinchey

Ms P Dean

Ms M Krempff

### **COURSE ADVISORY COMMITTEE (BUILDING STUDIES)**

*Chairperson*

Mr R F Pryor

*Dean of the Faculty*

Associate Professor G Caban

*Head of School*

Professor D J Lenard

*Staff of the School*

Mr P Healy

Mr A Karantonis

Associate Professor H MacLennan

Associate Professor C Roberts

*Representatives from the professions*

Dr J M Hutcheson

Mr D Kettle

Mr J Macpherson

Mr W A C Service

Mr V Shaw

Mr P Tyler

*Recent graduates*

Mr R Best

Mr N Harris

Ms R Notte

## STAFF LIST

*Associate Professor and Dean of Design,  
Architecture and Building*  
G Caban, BA, MEd (Syd), DipEd (Syd  
Teach Coll), GradDipCommunication  
(NSWIT), MDIA (ED), AADM

*Secretary to the Dean*  
M Makris, BA (UTS), AWG

### Faculty Office

*Faculty Administrator*  
S A Martin, BA (UNSW), MBA (UTS),  
GMA

*Projects Clerk*  
S G Cowell

*Administrative Officers*  
R D M Squirchuk, BA (Macq), MA (Syd)  
V Bergholtz, CertIntDes (SIT)

*Finance Clerk*  
P H W Chan

*Services Clerk*  
A G Hudson

*Student Administration Officer*  
T Heywood, BA DipEd (Macq)

*Student Liaison Assistant*  
N Singh

*Postgraduate Assistant*  
S A Hewson

*Courses Information Assistant*  
M A Bastock, BA (Macq)

### Faculty Technical Resources

*Technical Manager, Building Studies*  
G J Moor, StructEngCert (STC)

*Technical Officer, Textiles*  
P P Inwood, CertTypDipTextDes (Wgtn  
Poly) GradDipDesign (UTS)

*Technical Officer, Fashion*  
M V Spear

*Workshop Manager*  
W Feinberg, MOHS (UTS)

*Technical Officer, Workshop*  
A Pearson

*Research Officer, Interior Design*  
J A F Powell, DipArts (IntDes) (SCA)

*Production Coordinator, Printery*  
M J Watson, PrintDipCert (School of  
Graphic Arts, Sydney)

*Production Coordinator, Photomedia*  
T Horsington

*Production Coordinator, Film and Video*  
M R Barbagello, BA Pit (Melb)

*Computing Unit\**

E Bourke

N I Glettner

M B Mariano

R Sabir

H Trisnodjojo, MEEng (SWCU)

\* Staffing titles under review at time of  
publication.

## Architecture

*Associate Professor*  
W Barnett, DipArch (Dunelm), MPhil  
(Soton), FRSA, FRIBA, ARAIA

*Secretary*  
V M A Tibbertsma

*Professor of Architecture*  
N D Quarry, BArch (Melb), MArch  
(Rice), LFRAIA

*Visiting Professor*  
G Murcutt, ASTC

*Senior Lecturers*  
S J Harfield, BArch (Hons), MArch  
(Adel), MSAHANZ  
B S Jobson, BArch, MBdgSc (Syd), MIES  
J Muir, BArch (UNSW), ARAIA

*Lecturers*  
P J Cantrill, Bsc (Arch), BArch (Hons)  
(Syd), ARAIA  
A Caro, BArch (Hons) (NSWIT), ARAIA  
D Jones, BSc (Arch), BArch (Hons)  
(UNSW), MArch (UTA), ARAIA  
W Lewin, BArch (Hons) (Syd), ARAIA  
K E Pearson-Smith, BArch (Hons)  
(NSWIT), ARAIA, AIArbA  
J G Phillips, BA (Hons) (Syd), PhD  
(Lond)  
P Thalys, BSc (Arch), BArch (Hons)  
(Syd), CEAA (Belleville), ARAIA

## Building Studies

### *Professor of Building Studies*

D J Lenard, BAppSc, MAppSc (NSWIT),  
FAIQS, MAIB

### *Secretary*

P A O'Loughlin

### *Adjunct Professors*

A M Stretton, BE (Tas), MA (Oxford),  
AMIEAust

V Ireland, BE (UNSW), BA, MEngSc,  
PhD (Syd), ASTC FAIB, MIEAust

### *Associate Professor*

H A MacLennan, BBuild, MSc (Build),  
GradDip H and NP (UNSW), MAIB,  
MAIBS, AIFireE, MSFPE

### *Senior Lecturer and Postgraduate Research Coordinator*

J O Oluwoye, DipCart/RemSen  
(BriarCliffColl, NY), BSc URPL (UWM),  
MCP (How), PhD (UNSW), MCIT,  
AITPM, MAGSM, MNITP, MREAAA,  
MAPA

### *Honorary Associates*

J Threlfall, BA (Cantab), MIMC, CMC  
E J Tooher, BSc, BE (Civil) (Syd),  
MAIPM, MIEAust  
K Yao, MPM (UTS)

## Construction Management

### *Senior Lecturers*

L Crawford, BArch (Hons), MTCP (Syd),  
GradDipHRM (MCAE), FRAIA, FAIB,  
AVLE (Econ), MAIPM

B R Longfoot, BE, MEngSc (UNSW),  
ASTC, MIEAust, MAIB

P L Healy, BE (NUI), DIC, MSc (Lond),  
MBA (UNSW), MIEAust

### *Lecturers*

D Bajaj, BE (MIT), MConstMgt (UNSW),  
Grad IEAust PEng

P H Clarke, BBuild (UNSW),

GradDipEd (Tech) (SCAE),

GradDipEdStuds (ComputerEd) (UTS)

K A Heathcote, BE (Hons), MEngSc,  
MCom (UNSW), GradDipEd (SCAE),  
MIEAust, MAIB

N R Shooter, StructEngCert (STC),

BAppSc (NSWIT), AAIM, MAIB,

MAIPM

S T K West, BBldg, MAppSc (UNSW),  
GradDipAdultEd (SCAE)

## Land Economics

### *Senior Lecturers*

J E Dawkins, BSc (WAust), MTCP (Syd),  
MRAPI

A C Karantonis, BEc (NE), MCom  
(UNSW), FAIV (Econ)

S McGrath-Champ, BA (Hons) (WAust),  
MA (Brit Col), PhD (Macq),

G H Searle, BA (Hons) (Adel), PhD  
(Macq), MIAG

P Waxman, BA (Hons), DipEd (SUNY),  
DipEc (Stockholm), MBA (Wash)

### *Lecturers*

P B Cashmore, BA, MUP (Melb),

GradDipUrbanSociology (SIT),

GradDipProp (RMIT)

M Davis, BAppSc (UTS), AIVLE, MREI  
MRAPI, MAIG

G R Small, BSurv, MCom (UNSW), JP

## Quantity Surveying

### *Associate Professor*

C F Roberts, ASTC, LLB (UNSW),  
FAIQS, AIARB (Aust), Barrister of the  
Supreme Court of NSW

### *Senior Lecturer*

C A Langston, BAppSc, MAppSc  
(NSWIT), AAIQS, MAIB

### *Lecturers*

P V Smith, BAppSc (NSWIT), MAppSc  
(UTS), AAIQS, MAIB

G de Valence, BEc (Hons) (Syd), AIQS,  
AAIB, MAIB

## Design

### *Professor of Design*

D Freeman, MA (RCA), LFDIA, FCSD,  
AADM, FRSA

### *Secretary*

V M Hinwood

### *Associate Professor in Design Research*

P van Sommers, BA (Hons), MA (Melb)  
PhD (Harvard)

### *Senior Lecturers*

J A Broadbent, BSc, PhD (Reading),  
GradDipEnvStudies (Macq), AADM,  
MDIAJ

R V Hayes, BArch (Syd), MEnvStudies  
(Macq), MRAIA

W K Smith, BCom (UNSW), MMRSA

*Lecturer*

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