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Faculty of Design,
Architecture and
Building Handbook



University of Technology, Sydney



UTS Faculty of Design, Architecture and Building Handbook

1007

***Faculty of
Design, Architecture
and Building
Handbook
1997***

The University attempts to ensure that the information contained in this handbook is correct as at 2 December 1996. The University reserves the right to vary any matter described in the handbook at any time without notice.



University of Technology, Sydney

Equal opportunity

It is the policy of the University of Technology, Sydney to provide equal opportunity for all persons regardless of sex, race, marital status, family responsibilities, disability, sexual preference, age, political conviction or religious belief.

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:

Publications Branch,
Corporate Responsibilities Unit

Cover design:

External Relations Unit

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General University information

PREFACE

Welcome to the University of Technology, Sydney (UTS), the fourth largest university in New South Wales. UTS has a reputation for delivering quality higher education that meets the needs of the professions, the technologies and the community. It is a multicampus university operating at three major locations in the Sydney metropolitan area – Broadway, Kuring-gai and St Leonards – and offering over 80 undergraduate and 200 postgraduate courses to nearly 22,000 students.

The main work of course development and delivery at UTS is carried out by the Faculties of Business; Design, Architecture and Building; Education; Engineering; Humanities and Social Sciences; Law; Mathematical and Computing Sciences; Nursing; and Science; and the Institute for International Studies. Each of these is responsible for a range of programs across a number of key disciplines.

Every year UTS produces 10 faculty/institute handbooks containing information about all the courses and subjects offered at UTS, and including details of course content, attendance patterns, credit point requirements and combined degrees, plus important faculty and student information.

These handbooks are part of a suite of publications which includes the *UTS Calendar* and the postgraduate and undergraduate student handbooks. The *UTS Calendar* contains the University Act, By-law and Rules, a list of courses offered at the University, and other useful University information. Copies are held in the University's libraries and faculty offices, and may be purchased at the Co-op Bookshop. The student handbooks contain general information about application procedures, academic progression, assistance schemes, and services and facilities offered to students. You will be given a free copy of one of these when you enrol.

If you need more information about the University or its courses, you can contact the UTS Information Service or your faculty office. The University provides a whole range of services for students, and there are plenty of qualified people here to give you help and advice.

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

ADDRESSES AND TELEPHONE NUMBERS

University of Technology, Sydney

Postal address

PO Box 123
Broadway
NSW 2007 Australia

Telephone

(02) 9514 2000
International: +61 2 9514 2000
Fax: (02) 9514 1551

World Wide Web

<http://www.uts.edu.au>

City campus

Broadway

- Building 1 (Tower Building)
1 Broadway, Ultimo
- Building 2
1 Broadway, Ultimo
- Building 3 (Bon Marche Building)
Cnr Harris St and Broadway, Ultimo
- Building 4
Cnr Thomas St and Harris St, Ultimo
- Building 6
702–730 Harris St, Ultimo
- Broadway Terraces
9, 11 and 13 Broadway, Ultimo
- Magic Pudding Childcare Centre
Thomas St, Ultimo

Haymarket

- Building 5
Cnr Quay St and Ultimo Rd, Ultimo

Blackfriars

- Cnr Blackfriars St and Buckland St,
Chippendale
- Blackfriars Childrens Centre
Buckland St, Chippendale

Smail Street

- 3 Smail St, Ultimo

Wembley House

- 839–847 George St, Sydney

Harris Street

- 645 Harris St, Ultimo

Student housing

- Bulga Ngurra
23–27 Mountain St, Ultimo
- Geegal
82–84 Ivy St, Ultimo

Kuring-gai campus

- Eton Rd, Lindfield
(PO Box 222, Lindfield NSW 2070)

St Leonards campus

- Dunbar Building
Cnr Pacific Highway and
Westbourne St, Gore Hill
- Clinical Studies, Centenary Lecture
Theatre and West Wing
Reserve Rd, Royal North Shore Hospital
- Gore Hill Research Laboratories
Royal North Shore Hospital

Yarrawood conference and research centre

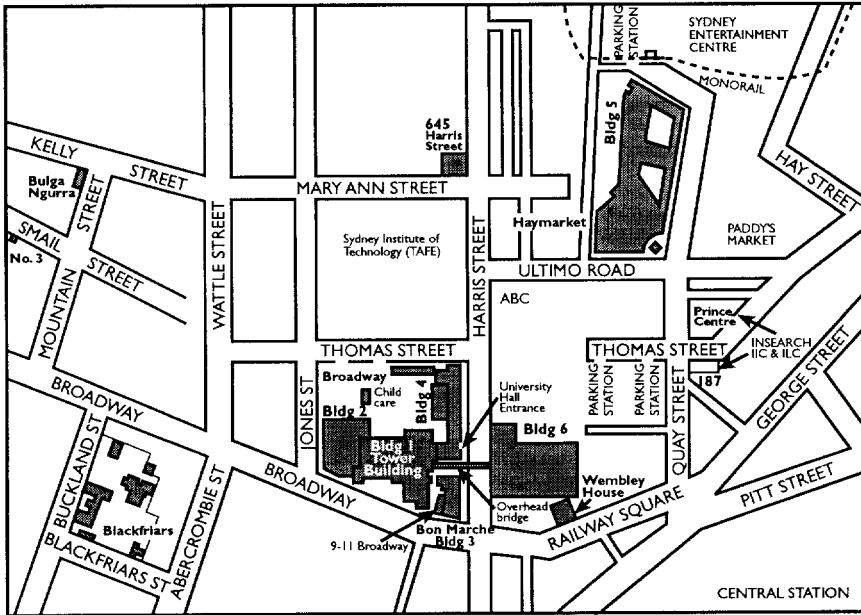
- Hawkesbury Rd
Yarramundi NSW 2753

Stroud Field Station

- Lot AFP 161894
The Bucketts Way
Booral NSW 2425

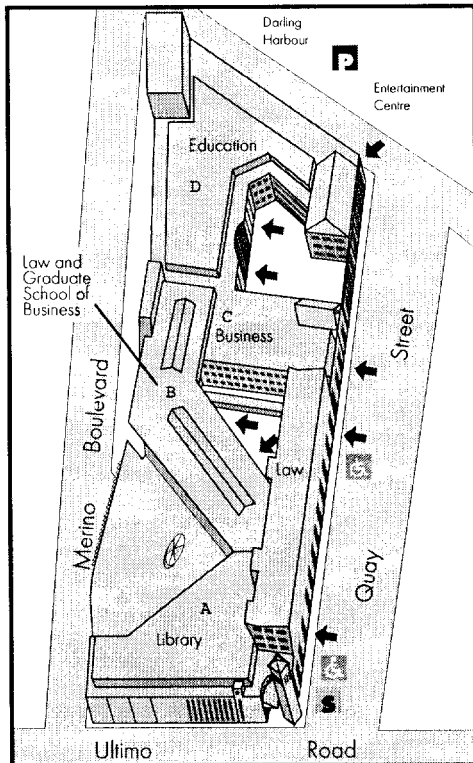
CAMPUS MAPS

City campus

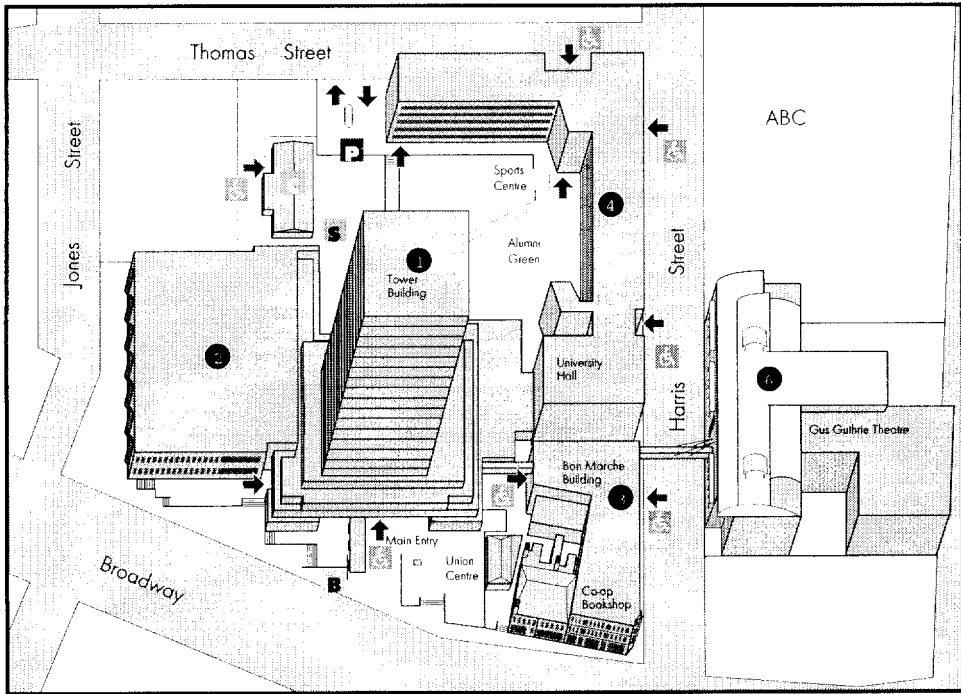


Haymarket

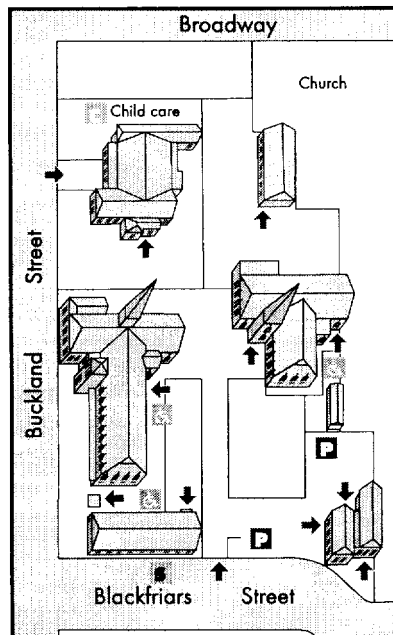
KEY	
	Entry/Exit
	Disabled access
	Main bus stop
	UTS shuttle bus
	Parking
	Building numbers
	Child care



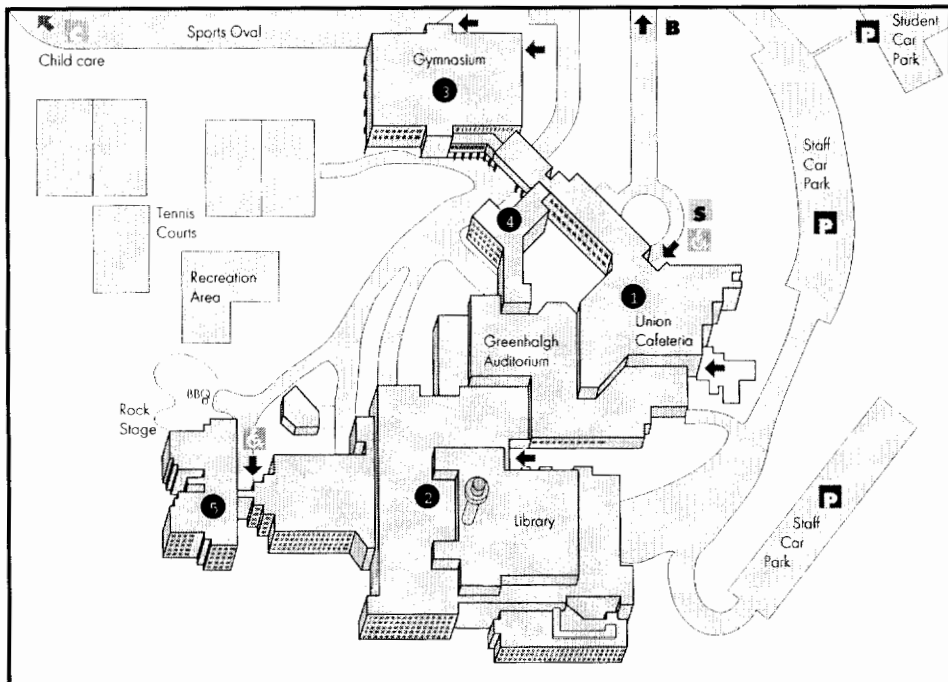
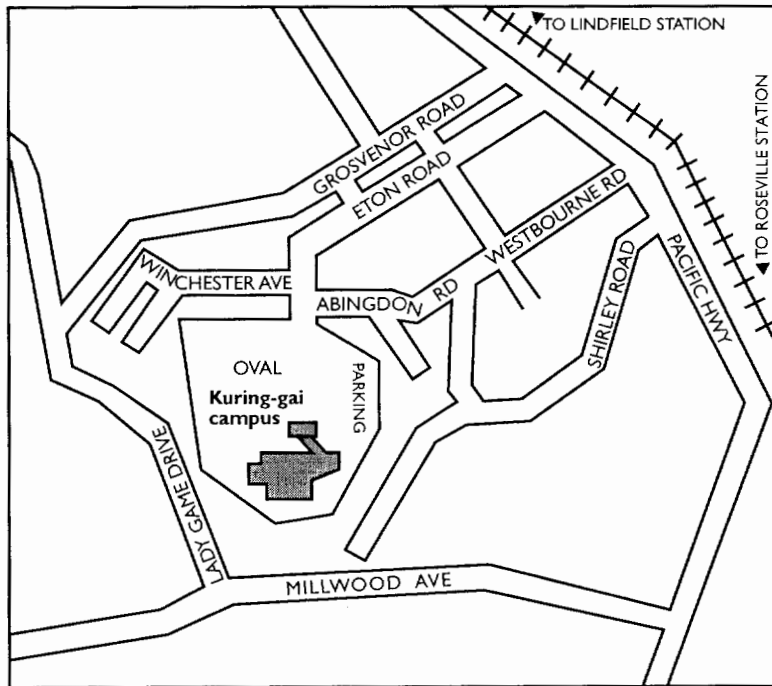
Broadway



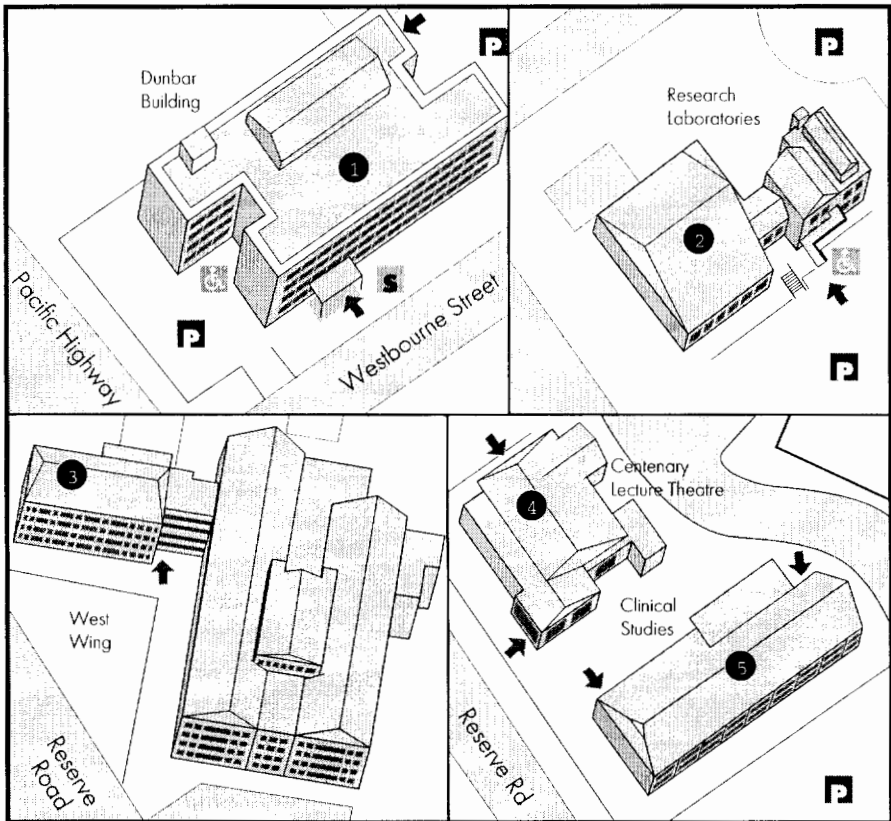
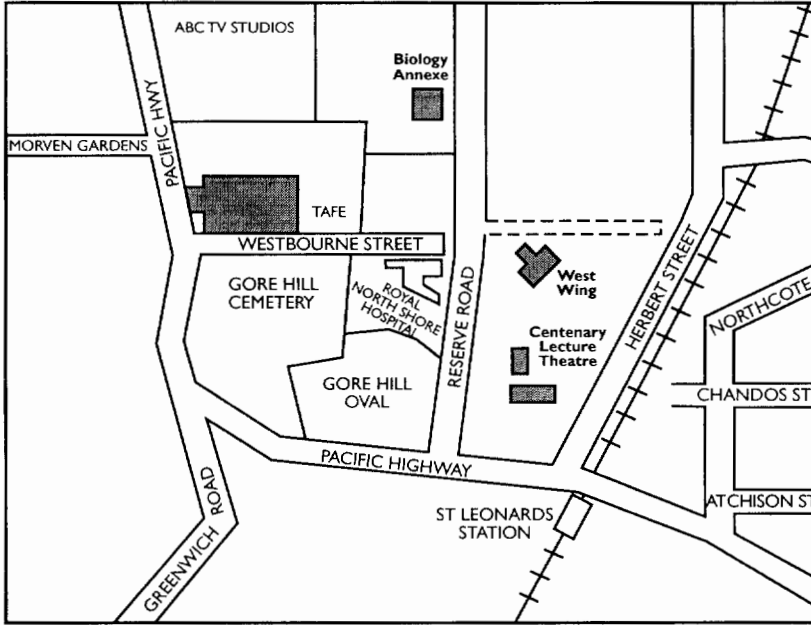
Blackfriars



Kuring-gai campus



St Leonards campus



APPLYING FOR UTS COURSES

Undergraduate

Applications for the majority of those undergraduate courses which start at the beginning of each year must be lodged through the NSW and ACT Universities Admissions Centre (UAC) between August and October. Please check the application requirements in the *UAC Guide*, as some of these courses close for applications at the end of September. Some courses are also available by direct application to UTS. These are usually courses that are not available to school leavers.

A small number of UTS courses also start in the middle of the year. Applications for these should be made direct to UTS in May.

Contact the UTS Information Centres for more information.

Postgraduate

Applications for postgraduate courses should be made direct to UTS. For courses starting at the beginning of the year, most applications are open from August to October, but some may have earlier closing dates. For courses

starting in the middle of the year, applications close in May.

Contact the UTS Information Centres for more information.

Non-award and External Award study

Non-award and External Award study allows individuals and students from other universities to study single subjects at UTS. There are four application periods, and closing dates are different for each of the semesters. Some faculties may have special application procedures which will vary depending on the subjects chosen.

Contact the UTS Information Centres for more information.

International students

International students need to satisfy the normal UTS entry requirements and be proficient in English. For details on courses, fees and application procedures, contact International Programs.

UTS INFORMATION CENTRES

Street address	Postal address	Telephone/Fax
<i>City campus</i>		
Foyer, Tower Building 1 Broadway	UTS Information Service PO Box 123 Broadway NSW 2007	Telephone: (02) 9514 1222 Fax: (02) 9514 1200
<i>Kuring-gai campus</i>		
Level 5 or 6, Main Building Eton Road Lindfield	Kuring-gai Student Centre PO Box 222 Lindfield NSW 2070	Telephone: (02) 9514 5555 Fax: (02) 9514 5032
<i>International Programs</i>		
Level 5, Tower Building 1 Broadway	International Programs PO Box 123 Broadway NSW 2007	Telephone: (02) 9514 1531 Fax: (02) 9514 1530

E-mail inquiries

Within Australia – info.office@uts.edu.au

International – intlprograms@uts.edu.au

PRINCIPAL DATES FOR 1997

Autumn semester

January

- 7 Release of HSC results
- 10 Formal supplementary examinations for 1996 Spring semester students
- 10 Closing date for changes of preference to the Universities Admissions Centre (UAC) from 1996 NSW and ACT HSC applicants
- 21–28 Enrolment of students at City campus
- 24 Main Round of offers to UAC applicants
- 27 Australia Day – public holiday
- 29–31 Enrolment of new undergraduate students at City campus (and 3 February till noon)
- 31 Public school holidays end

February

- 3 Enrolment of new undergraduate students at City campus till noon (and 29–31 January)
- 3–26 Enrolment of students at City campus

March

- 3 Classes begin
- 14 Last day to enrol in a course or add subjects
- 27 Last day to apply for leave of absence without incurring student fees/charges¹
- 27 Last day to withdraw from a subject without financial penalty¹
- 28 Public school holidays begin
- 28 Good Friday – public holiday
- 31 HECS census date
- 31 Easter Monday – public holiday
- 31 Vice-Chancellors' Week (non-teaching) begins

April

- 1 Graduation period begins
- 4 Public school holidays end
- 4 Vice-Chancellors' Week (non-teaching) ends
- 11 Last day to withdraw from a course or subject without academic penalty¹
- 24 Provisional examination timetable available

- 25 Anzac Day – public holiday
- 30 Last day to apply to graduate in Spring semester 1997

May

- 1 Applications available for undergraduate courses
- 6 Applications available for postgraduate courses
- 9 Graduation period ends
- 16 Examination Masters due
- 30 Final examination timetable available
- 30 Closing date for undergraduate and postgraduate applications for Spring semester

June

- 9 Queen's Birthday – public holiday
- 13 Last teaching day of Autumn semester
- 14–30 Formal examination period (and 1–4 July)
- 30 Public school holidays begin

July

- 1–4 Formal examination period (and 14–30 June)
- 4 Autumn semester ends
- 7–11 Vice-Chancellors' Week (non-teaching)
- 11 Public school holidays end
- 14–18 Formal alternative examination period for Autumn semester students
- 25 Release of Autumn semester examination results
- 28 Formal supplementary examinations for Autumn semester students
- 30–31 Enrolment of new and readmitted students and students returning from leave/concurrent study (and 1 August)

August

- 1 Enrolment of new and readmitted students and students returning from leave/concurrent study (and 30–31 July)
- 1 Applications available for undergraduate and postgraduate courses for Autumn semester 1998

Spring semester

August

- 4 Classes begin
- 8 Last day to withdraw from full year subjects without academic penalty¹
- 15 Last day to enrol in a course or add subjects
- 29 Last day to apply for leave of absence without incurring student fees/charges (Spring enrolments only)¹
- 29 Last day to withdraw from a subject without financial penalty¹
- 29 Last day to apply to graduate in Autumn semester 1998
- 31 HECS census date

September

- 12 Last day to withdraw from a course or subject without academic penalty¹
- 26 Provisional examination timetable available
- 29 Public school holidays begin
- 29 Graduation period begins
- 29 Vice-Chancellors' Week (non-teaching) begins
- 30 Closing date for undergraduate applications via UAC (without late fee)
- 30 Closing date for postgraduate applications (some courses may have a later closing date)
- 30 Closing date for inpUTS Special Admission Scheme applications

October

- 3 Graduation period ends
- 3 Vice-Chancellors' Week (non-teaching) ends
- 6 Labour Day – public holiday
- 10 Public school holidays end
- 17 Examination Masters due
- 31 Final examination timetable available
- 31 Closing date for undergraduate applications via UAC (with late fee)
- 31 Closing date for undergraduate applications direct to UTS (without late fee)

- 31 Closing date for Australian Postgraduate Award (research & coursework), the R L Werner and University Doctoral Research Scholarships

November

- 14 Last teaching day of Spring semester
- 15–28 Formal examination period (and 1–5 December)

December

- 1–5 Formal examination period (and 15–28 November)
- 5 Spring semester ends
- 15–19 Formal alternative examination period for Spring semester students
- 19 Release of Spring semester examination results
- 22 Public school holidays begin

¹ HECS/postgraduate course fees will apply after the HECS census dates (31 March and 31 August or last working day before).

Note: Information is correct as at 28 October 1996. The University reserves the right to vary any information described in Principal Dates for 1997 without notice.

Faculty information

MESSAGE FROM THE DEAN

I would like to welcome you as new or continuing students to the Faculty of Design, Architecture and Building.

The Faculty offers eight undergraduate degree programs and a number of postgraduate research and coursework programs in the areas of design, architecture, construction and property studies. Also offered are continuing professional education programs in areas including Project Management, and these reinforce the value placed by the Faculty in lifelong learning. Our vocational emphasis and strong links with industry and the professions are developed through the involvement of professionals as part-time lecturers and members of the course advisory committees, and through the emphasis on work-based learning.

Opportunities for interdisciplinary learning are encouraged, and it is becoming increasingly possible for students to take elective subjects from other faculty disciplines, from other UTS faculties, and from other universities. I encourage you also to take advantage of the large range of sporting and cultural opportunities offered by UTS clubs and associations.

The Faculty is located in a modern and well-equipped building in Harris Street, Ultimo, where facilities include advanced laboratories and workshops for computing, photography,

printing and manufacturing technology, an exhibition gallery, and a coffee shop and bistro. The building provides some of Sydney's best spaces for exhibitions, performances, and conferences.

Among the Faculty's notable achievements in the past year have been the accreditation of the Construction Economics and Land Economics programs by the Royal Institute of Chartered Surveyors. A new Architecture program which incorporates a Master's degree has been introduced, and there has been a marked increase in the enrolments and graduations of research students. This year sees the introduction of combined degrees which incorporate a BA in International Studies and involve student exchanges, offshore programs and joint projects in countries including China, Singapore, Malaysia and India. The Faculty is planning significant involvement in two new UTS initiatives, namely the Australian Technology Park where the Faculty is locating a number of research activities, and the Institute for Sustainable Futures.

I wish all students a challenging and enjoyable period in the Faculty, leading to a successful career.

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 professional education.

INFORMATION FOR STUDENTS

Eligibility for Austudy

Austudy provides financial help to full-time students who meet its income and assets requirements. Application forms and information about Austudy eligibility are available from offices of the Student Services Unit at the City and Kuring-gai campuses. **Students who receive Austudy and decide to drop subjects during the semester need to be aware that to remain eligible for Austudy they must be enrolled in a minimum of 18 credit points or have a HECS liability for the semester of .375.** The only exceptions made are for students with disabilities which interfere with their studies, students who are single supporting parents or those who have been directed by the University to reduce their study load. Student Welfare Officers in the Student Services Unit can assist students who wish to apply for exceptions on these grounds.

International Studies Electives

The Institute for International Studies in UTS offers electives in language studies and in the study of contemporary societies in parts of the non-English-speaking world. All subjects are taught over one semester and have a value of eight credit points.

Language Studies

All students wishing to take language studies as a credited part of their degree are required to enrol through the Institute for International Studies, whether the language studies are undertaken in UTS or elsewhere. The Institute teaches some language programs at UTS, has made arrangements with other universities for some languages to be taught to UTS students, and can make special arrangements for individual students to attend specific language programs where academic needs demand. The individual student's level of language proficiency before entry to the UTS program decides their level of language study. There is a range of entry levels to the various programs available. Most are available at beginner's and post-HSC levels, and some at more advanced levels.

In 1997, the Institute for International Studies is offering the following language programs: Cantonese, Chinese, Croatian, French, German, Greek, Indonesian, Italian, Japanese, Malaysian, Polish, Russian, Serbian, Slovenian, Spanish, Thai and Ukrainian.

Contemporary Society

The Institute also offers a series of subjects that provide an introduction to the contemporary societies, politics, economics and cultures of the countries of East Asia and South-East Asia, Latin America and Western Europe that are the areas of specialisation of the Institute.

In 1997, the following Contemporary Society subjects will be available: Argentina, Chile, China, Croatia, France, Germany, Greece, Indonesia, Italy, Japan, Latin America, Malaysia, Poland, Russia, Serbia, Slovenia, South China, South-East Asia, Spain, Taiwan, Thailand and Ukraine. There are no prerequisites for any of the Contemporary Society subjects. All subjects are taught in English and are available, with the permission of their faculties, to all UTS students.

Combined Degrees

In cooperation with the Institute for International Studies, the Faculty of Design, Architecture and Building will offer four combined degrees to students in 1997. These degrees integrate studies in the areas of design, building or land economics with a major in the language and culture of another country. They are designed to produce graduates who have developed a broad perspective and a range of skills which will enable them to work in an internationalised professional environment. These degrees are:

Bachelor of Building in Construction Economics/Bachelor of Arts in International Studies AB08

Bachelor of Building in Construction Management/Bachelor of Arts in International Studies AB09

Bachelor of Design/Bachelor of Arts in International Studies D003

Bachelor of Land Economics/Bachelor of Arts in International Studies AB10

For more information students should consult the Academic Administrator at the Institute for International Studies, UTS, 9 Broadway (telephone: 9514 1574, fax: 9514 1578), or the *1997 Institute for International Studies Handbook*.

LIST OF COURSES

Course name	Code
Design	
Bachelor of Design with a major in:	
Fashion and Textile Design	DF01
Industrial Design	DD01
Interior Design	DT01
Visual Communication	DV01
Graduate Certificate in Design and Technology	D059
Graduate Diploma in Design	D052
Master of Design (by coursework)	D051
Architecture	
Bachelor of Arts in Architecture	AA03
Bachelor of Architecture (old program)	AA02
Bachelor of Arts (Honours) in Architecture	AA04
Bachelor of Architecture (revised program)	AA05
Master of Architecture (by coursework)	AA55
Master of the Built Environment (by coursework)	AA53
Building Studies	
Bachelor of Building in Construction Management	AB03
Bachelor of Building in Construction Economics	AB04
Master of Building in Construction Economics	AB59
Bachelor of Land Economics	AB06
Master of Land Economics	AB58
Graduate Certificate in Urban Estate Management	AB64
Graduate Diploma in Urban Estate Management	AB52
Graduate Certificate in Building Performance	AB62
Graduate Certificate in Building Regulations	AB63
Graduate Diploma in Building Surveying and Assessment	AB57
Graduate Certificate in Project Management	AB66
Graduate Diploma in Project Management	AB65
Master of Project Management	AB53
Graduate Diploma in Planning	AB55
Master of Planning	AB56
Research	
Master of Design (by thesis)	D058
Master of Architecture (by thesis)	AA51
Master of Applied Science (by thesis)	AB51
Doctor of Architecture (by thesis)	AA54
Doctor of Philosophy in Design	D057
Doctor of Philosophy in Architecture	AA52
Doctor of Philosophy in Building/Quantity Surveying	AB54

Programs in *Design*

Undergraduate courses

Bachelor of Design

The curriculum for the Bachelor of Design is based on a problem-solving approach and self-directed learning. All students undertake a common first semester (Design 1) which introduces them 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 consist 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 is subject to availability and 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.

Regulations

These regulations are to be read in conjunction with the University's Rules and By-law, as contained in the *UTS Calendar*. They relate to the majors in the Bachelor of Design course: Fashion and Textile Design; Industrial Design; Interior Design; and Visual Communication.

Awards and Graduation

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

152 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;

24 credit points from an approved strand of Minor Studies subjects including six credit points at each of 300, 400, 500 and 600 levels; 16 credit points from General Studies subjects.

Progression

A student must pass all prerequisites at one level of study before being eligible to proceed to the next level. This requirement may be varied with the approval of the Faculty Board.

Assessment Policy

This policy statement has been adopted in accordance with the University's policy on assessment. 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.

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

A semester program for each subject is provided to students by the third week 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. The basis for assessment is spelt out in the semester program for each subject. Attendance and participation in classes may

be a 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.

The assignment conditions set by the subject lecturer define as necessary the submission format, the submission deadline and the assessment criteria. 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.

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.

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.

Subject assessments are compiled by coordinating examiners, in consultation with staff teaching in the subject and with the Director of Program. 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.

A conceded pass or R result can be awarded to a student by the Examination Review Committee. This is given to a student whose mark is just below the pass/fail boundary. In any one semester a student must be awarded one conceded pass only, and in order to be granted that, must have achieved passing grades in all other subjects attempted.

The Examination Review Committee meets to consider consolidated results. Medical and other properly submitted evidence about factors affecting a student's performance plus records of absences and approved leave are considered. When approved and adopted by the Examination and Review Committee, results become official and are released to students by the Student Administration Unit.

Bachelor of Design in Fashion and Textile Design

Course code: DF01

Fashion and textile design is concerned with the design of fashion clothing, surface and textiles, 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 covers aspects from street to high-end fashion, and fashion to interior textiles.

Fashion and textile designers work with or alongside manufacturers and marketers; they have responsibility for design direction and marketability of produced concepts. They need to have an awareness of current and projected trends and values in lifestyle, and a detailed understanding of materials, technologies and process methodologies of the fashion and textile industry. The structure of the course is planned to produce graduates who aspire to the highest level of practice and who, as individuals, are capable of adapting to the diversified and changing nature of the industry.

First-year studies commence with common problem-based projects and multidisciplinary study. Major studies for fashion and textile design commence in the second semester and focus on core design fundamentals of both fashion and textiles, with a strong base of technology across both disciplines. Second-year subjects comprise four complementary fields: Design, Technology, Communication and Business studies. Through the study of theory and practice in these fields, students develop their understanding of the design process, its adaptation and application to society. Third-year subjects, while continuing these strands, encourage specialist development of individual design practice, together with a professional experience program and academic research.

Subjects that combine fashion and knit design involve the study of the varied levels and market areas of this design field, while textile design encompasses the spectrum of surface design, with all its nuances.

Students develop a personal philosophy and style through the various design problems encountered and the accompanying theoretical research undertaken during the four years of study.

Course structure**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****Spring semester**83440 Design Project F&T 4 14cp
Minor study 6cp
General study 4cp**Stage 5****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**Stage 7****Autumn semester**83770 Design Project F&T 7 16cp
83780 Research Dissertation F&T 8cp**Stage 8****Spring semester**

83880 Major Project F&T 24cp

Bachelor of Design in Industrial Design**Course code: DD01**

Industrial design is concerned with the design of products for the 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**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

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

Spring semester

84880	Major Project ID	24cp
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Bachelor of Design in Interior Design

Course code: DT01

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 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

Stage 1

Autumn semester

85000	Design 1	24cp
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Stage 2

Spring semester

86220	Design Project IT 2	24cp
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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
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Bachelor of Design in Visual Communication

Course code: DV01

Design of visual communication involves the creation, processing and production of messages 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, most often incorporating words and images produced freehand or with the assistance of photographic, video and digital 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 and to take a critical and imaginative stance to their eventual professional role. Integral to the course is an understanding of the way the design process is mediated by the contemporary sociopolitical 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, the course encourages students to develop their individual talent and career orientation through project selection.

In lectures and tutorials the historical and contemporary context of design and practice are examined. By initiating a focus for research and project activity, close links are established between practice and theory. Design problems are supported by visual technology design 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

Stage 1

Autumn semester

85000	Design 1	24cp
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Stage 2

Spring semester

87220	Design Project VC 2	24cp
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Stage 3

Autumn semester

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

Stage 4

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
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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, environmental communications 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 faculties, or at other institutions. There are no prerequisites.

Further details of minor and general studies subjects to be offered in 1997 will be provided at the time of enrolment. When enrolling, students should carefully check the 1997 offerings and subject numbers as detailed on the separate overlays provided at that time.

Undergraduate

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 I

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 the design problems in teams of 20 or so students in association with a studio supervisor. The studio sessions give time for a response to the problem briefs. They are used to coordinate both individual and group activities central to the resolution of Problems 1, 2 and 3 on the subjects of design and place, people and identity. As such, they are an indispensable part of problem-based learning and are mandatory. All work is to be recorded in a Process Journal which is part of the assessment of the course.

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

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

1. The Design Elements workshop is central to the development of a design vocabulary. Two major interlocking themes will be developed. The first focuses on the use of colour in numerous ways and develops an understanding of the interplay between the designer and the ways colour is used in the community. The second theme concerns the elements of design and seeks to develop an understanding of the applied nature of the elements of design. Students will work their way through a series of workshops and discussion sessions. The studio supervisors also coordinate these workshops but work with different groups from the studio sessions.
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. The need to develop an early understanding of the precise way in which ideas are communicated within a design team and beyond to the manufacturing and construction stage is addressed in the discipline-specific workshop. Because the specifics are of value to students enrolled in particular disciplines, these workshops are of limited availability. The program involves orthographic drawing for Interior and Industrial Design students, pattern drafting for Fashion and Textiles students and visual communication and computing for Visual Communications students. Each program is presented by staff from the disciplines and is regarded as an essential introduction to the second semester.
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 media, all of which are of value in the presentation of design responses to problems developed within the Faculty and subsequently faced in the design profession.
5. The techniques for presenting ideas in three dimensions as built form are developed in the 3D presentation workshop. They involve elements of

design and a knowledge of materials, processes and crafting skills. The workshop 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 F&T 2 introduces students to the technology and design elements required by a fashion and/or textile designer. These are facilitated through workshops, lectures and tutorials in both disciplines. This core base is supported by lectures in fabrics communication, together 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 textiles through design and technology. Skills and processes are advanced from the last semester. Students are introduced to fashion drawing as a communication skill, along with more advanced forms of CAD. Principles of Marketing introduces students to the importance of research in the process of design. History of Design lectures support the projects.

83440

Design Project F&T 4

14cp; prerequisite: 83330 Design Project F&T 3

Projects undertaken during this semester will include the more advanced aspects of fashion and textile design, process and technology including drape techniques. Students study a more holistic approach to design and explore themes and adaptation. Principles of management will be introduced and lectures will be given by industry professionals. The semester is supported by a Design Context, and a History and Lifestyle lecture series.

83550

Design Project F&T 5

14cp; prerequisite: 83440 Design Project F&T 4

A more innovative approach to the disciplines of fashion and textile design is encouraged within the problems set this semester. Projects are set in fashion and textile design in collaboration with industry, and/or are run with visits to and lectures from industry specialists. The area of applied marketing is included as a series of lectures, case studies and practical research, acquainting students with theory specific to the fashion and textile industries. Projects are supported with cultural studies.

83660

Design Project F&T 6

14cp; prerequisite: 83550 Design Project F&T 5

This semester begins with a series of industrial site visits combined with a period of professional experience within a specialised field of the industry. Emphasis is given to advanced aspects of the discipline, and projects are offered that encourage students to pursue their personal specialisation within the disciplines offered. The course is supported by the teaching of Applied Management which deals with the process and operation of manufacture such as TQM etc. A research paper is prepared by students as an introduction to their dissertation in level 700.

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 of fashion and/or textile design. Through market research, design and development students develop two ranges in their agreed area of specialisation. This includes full research documentation of the processes of both design and production. The project is supported with lectures from industry specialists in professional practice.

83780**Research Dissertation F&T**

8cp; prerequisite: 83660 Design Project F&T 6

Students are required to develop a research project orientated to support their personal design direction or interest on a design-related topic. This subject is coordinated by a supervising lecturer. Research must be presented in written form, and can include visual components.

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 and accumulated knowledge from previous years' study through the preparation and execution of a personally prepared brief and to demonstrate their ability to work at a graduate, professional level. The project is supported by a series of seminars and tutorials on specialised aspects of the profession. Assessment is based on a presentation of completed work to a panel of staff and industry specialists at the end of semester.

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, the use of materials, and problem-solving techniques. Typical of the content are the following topics: workshops in 3D representation 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 multidisciplinary 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 Design Project 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 involved in the design of 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 in 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. Through a series of experiential design projects students will gain a broader understanding of the breadth and diversity of interior design 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 an 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, design projects are based on abstract spatial issues in the early stages, culminating in projects concerned with the hospitality industry, restaurants, cafes or bars. Academic study fields include the following: Design Context; Interior Design History; Design Methods; Design Elements; Interior Technology, Environment and Structure; and Design Communications. Communication workshops will specialise in three-dimensional representation, orthographic drawing, freehand drawing and computer-generated drawing.

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 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, Interior Design History, Design Methods, Design Technology, Materials, Environmental Systems, and Design Communications. Communication workshops will specialise in design illustration, advanced orthographic drawing and design computer-generated drawing.

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. Specifically, projects will centre on retail design, and merchandising systems and methods.

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

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, projects will specifically 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, Interior 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

This subject 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

This subject 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 design 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 competence in the composition and selection of materials, technological systems, fabrication, and construction methods for a variety of interior environments.

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 and 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 incrementally by the student and tested in their design solutions.

Design Communications

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

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 in drawing and sketching spaces, objects and life subjects using a variety of media and techniques.

Computer Generated Drawing – through a series of lectures, workshops and tutorials students will gain competence 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 Communications 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, multi-culturalism, 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 theory lectures, visual research and practical exploration integrated into project development and problem solving. Investigations focus on the following: 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 design technology workshops support project activity:

- The image-making workshop explores the generation of ideas translated through graphic forms of expression and consolidates abilities to visualise ideas with meaning.
- The photo media workshop consolidates black-and-white photography skills and initiates the design of constructed images.
- The typography workshop directly supports project activity and investigates the historical background of type development and the role of technological change on the generation and application of words as images.
- The computer workshop continues to develop digital skills introducing additional software programs which can be utilised in balance with manually generated applications for computer-aided design and production.

87330

Design Project VC 3

14cp; prerequisite: 87220 Design Project VC 2

This subject is the academic core study of the Visual Communications 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, and the production and 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 the 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 design technology workshops support project activity.

- The image-making workshop explores the generation of ideas translated through graphic forms of expression and consolidates abilities to visualise ideas with meaning.
- The photomedia workshop consolidates black-and-white photography skills and initiates the design of constructed images.

- The typography workshop directly supports project activity and investigates the historical background of type development and the role of technological change on the generation and application of words as images.
- The computer workshop continues to develop digital skills introducing additional software programs which can be utilised in balance with manually generated applications for computer-aided design and production.

87440

Design Project VC 4

14cp; prerequisite: 87330 Design Project VC 3

This subject is the academic core study of the Visual Communications 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 precedents 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 reproduction and screen transmission is consolidated and integrated with photographic and manually 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 competence in structuring visual communications develop, 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

The workshops previously offered continue. Knowledge and skills are consolidated and gradually integrated into the design processing of projects through access and support in photography, video, animation, computing and digital pre-press.

87550

Design Project VC 5

14cp; prerequisite: 87440 Design Project VC 4

This subject is the academic core study of the Visual Communications 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 at equivalent institutions in England and Germany are available. 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 Studio

A graphic design consultancy which allows students to put their ideas into practice for 'real' clients, developing workplace skills and a portfolio of finished pieces along the way. Students take on the responsibility of running the studio and managing jobs under supervision from a specialised staff member.

Design project

If not involved at this stage in any of the above activities, students may choose project work from a number of projects offered by interdisciplinary teams of lecturers. These could include the following: 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. This 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.

Visual research

Having gained basic knowledge in design technologies, students are encouraged to undertake visual research which explores the potential of visual media to express and communicate concepts, as extensions of given texts, or as personally devised and researched.

87660

Design Project VC 6

14cp; prerequisite: 87550 Design Project VC 5

This subject is the academic core study of the Visual Communications 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 inquiry 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 Communications 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 for the end of the 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 and standards.

General Studies subjects**51002****Creative Writing 1**

4cp

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

51003**Social Theory and Australian Society I**

4cp

This subject 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, which include the following: general introduction; social psychology of the individual; group influences upon individual behaviour; social interaction; group structure and membership; leadership; sociology and general introduction to

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

51006**Creative Writing 2**

4cp

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

51007**Media Studies**

4cp

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

51008**Social Theory and Australian Society 2**

4cp

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

80039**Aboriginal and Torres Strait Islander Art and Culture I**

4cp

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

This subject 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, and film.

80050**Marketing**

4cp

This subject 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; and distribution.

80051**Design History I**

4cp

This subject 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. The course will acquaint students with vocabularies of Western design such as Classicism and Gothic, and examine the way in which these have been exploited and amended for different needs at different times. Historical shifts in the definition of the craftsman/artisan/designer and changing social roles will be examined.

80052**Design Systems**

4cp

This subject examines some categories of design problems and solutions that transcend professional boundaries and use systems concepts as an aid to their understanding. It includes 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

This subject 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 provides an introduction to the theory of popular culture as the dominant social context of our time and explores 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 the study of cinema and television. Through a series of lectures and screenings, various ways of gaining a more informed understanding of cinema and television material will be developed.

The material covered will include fiction and documentaries, features, mini-series and short form production. The approaches will include silent cinema, national cinema, auteur theory, cinéma-vérité, avant-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

This subject provides a working knowledge of the practical application and use of survey data from independent research in solving design problems. A series of seminar/tutorials deals with the following: research design and proposal; questionnaire design; sampling; interviewing; scoring; data interpretation; industrial research; and research and segmentation of markets.

80071**Design History 2***4cp*

This subject examines aspects of design history in the context of social and technological change from the late 18th century to the present day. Western architecture, interior design, industrial design and fashion will be focal points.

80072**Environmental Systems***4cp*

This subject 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 are based upon large- and small-scale systems such as energy cycles, transportation and buildings.

80073**Client Presentation***4cp*

This subject provides students with practical skills in the planning and presentation of information and proposals to client groups using audiovisual equipment. A series of lectures and demonstrations deals with the following: coordination of equipment; group presentations; individual presentations; planning for major presentations; and commercial applications.

80076**Visual Perception***4cp*

This subject 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 centring 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 and presentations will develop themes. Students will be free to negotiate topics that

interest them and can be classified as part of the 'symbolic order'. Material discussed will include the work of Susan Sontag, Alison Lurie, Roland Barthes and Gordon Lakoff.

80079**Film and Television Documentary***4cp*

The aim of this subject will be to give students an introduction to the documentary film, tracing its origins from: the Lumière 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 and contributing to discussions, and by the presentation of seminars or the writing of essays on selected topics within the course outline.

80080**Class and Culture***4cp*

This subject analyses the class structure of Australian society, drawing upon academic and vernacular sources, and emphasises the role of elite and popular culture in maintaining hegemonic class control. Topics include class and politics, class mobility, factors in class formation, and the distinctive features of the Australian class system.

Minor studies subjects**88302****Environmental Communications I***6cp*

This subject introduces the issues and the principles of environmental communication by lectures, workshops and site visits. Students will apply and demonstrate their understanding of these issues in a design project based on a given exterior site. Students have the opportunity to devise a project relevant to their major area of study.

88304**Illustration I***6cp*

This subject 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 is undertaken.

88305**Photography I***6cp*

This subject 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 is undertaken. Emphasis is placed on the 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**Textiles I***6cp*

This subject explores printmaking from photographic (screenprint), experimental (laser transfer) to alternatives for various materials such as textiles, wood, paper and plastics. Students will learn, through a series of workshops and studio practice, differing print methods and their application for surface design.

88308**Film and Video Design I***6cp*

This subject provides students with an understanding of the techniques and processes involved in the design of film and video productions with particular emphasis on animation and special effects design. The first (300) level semester involves an introduction to the basic language and technology of animation and special effects design in film and video production and to the roles of the art director and other members of the design

team. Subsequent semester units provide students with the experience of script analysis, design research, storyboard design and character design. A series of lectures, screenings and discussions will deal with the history, theory and practice of the screen media. Where possible, students will be presented with the opportunity for appropriate specialisation. It should be noted that this subject is not a film and video production subject but has emphasis on the design aspects of production. The subject is offered only as access is available.

88309**Transportation Design I***6cp*

This subject provides an introduction to vehicle design and a general understanding of these complex products. The program is essentially project oriented with a theoretical component covering engineering aspects such as basic dynamics, suspension systems, drive layout and their effect on overall design. Ergonomic and aesthetic considerations will also be studied. The subject may include field trips and guest lecturers.

88310**Design and Sustainable Human Futures I***6cp*

Ecological crisis is now a fact of life. How can and should designers respond? This course explores the options available to designers from a philosophical and pragmatic perspective. Ecodesign covers the connection between searching for a means to achieve ecological sustainment and the everyday practices of the design disciplines. The concepts of social ecology are developed by students, often working in groups. Contemporary initiatives towards providing sustainable benefits are examined. The outcome of the class will be positive action. The main aim is to explore collectively, to encourage students to rethink and reconstruct their own design practices, and to work towards design solutions that facilitate ecological sustainment. The class will determine the outcomes.

88311**Furniture Design I**

6cp; prerequisite: a high level of competency in the communication areas of orthographic drawing and 3D representation

This subject introduces students to furniture design. It 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 I**

6cp

This subject introduces students to the specialised area of design for performances in theatre spaces. It examines, through the academic fields of history, design methodology, and 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 and explores 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 professional performers from a range of areas including drama, opera and ballet.

88402**Environmental Communications 2**

6cp

This subject continues the investigations and format of Semester 1, but with a focus on communication and exhibition design in the context of museums.

88404**Illustration 2**

6cp

Continuation of 88304.

88405**Photography 2**

6cp

Continuation of 88305.

88406**Textiles 2**

6cp; prerequisite: 88306 Textiles 1

This subject continues the exploration of surface design through an understanding of cloth construction and repeat system concepts appropriation for interior/industrial application. Using CAD, students will explore surface design repetition, simulate print and woven textiles and apply designs to virtual products and interior spaces. Fundamental textile elements such as spacing, scale, colour balance, coordination and presentation will be studied at this level.

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

This subject further develops student's understanding of the complexity of designing road vehicles with more detailed design projects emphasising the marketing/design relationship. Other areas of transportation are introduced, accompanied by relevant theory components. Specific design projects initiated by students may be included.

88410**Design and Sustainable Human Futures 2**

6cp

This subject will give hands-on experience to people wishing to practise ecodesign. The program develops the foundation of sustainable design practice laid down by 88310 Design and Sustainable Human Futures 1. In particular, the role of systems thinking in relation to key ecological processes is explored, and the opportunities for ecodesign intervention in real community activities are developed. Projects will range from a feasibility study through to a final evaluation

from an ecological perspective. The creation and operation of relational working groups will be an important part of the program. Real projects and clients and site visits are included. Participants are expected to be pro-active and interactive.

88411**Furniture Design 2***6cp*

Continuation of 88311.

88412**Design for Theatre 2***6cp*

Continuation of 88312.

88501**Computers and Design 3***6cp*

Continuation of 88401. Available only to students who have completed Computers and Design 1 and 2.

88502**Environmental Communications 3***6cp*

This subject further develops an understanding of environmental communications with increasing emphasis on industry practice.

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**Textiles 3***6cp; prerequisite: 88406 Textiles 2*

This subject looks at issues relating to the textile industry including sustainable textiles and life cycle analysis. This will take the form of guest lectures, research and recycling applications for textiles in terms of design and print. At this level students are required to develop a group of artefacts that encourages the use of sustainable and recycled materials.

88509**Transportation Design 3***6cp*

Continuation of 88409.

88510**Design and Sustainable Human Futures 3***6cp*

Continuation of 88410.

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. Available only to students who have completed Computers and Design 1, 2 and 3.

88602**Environmental Communications 4***6cp*

In this subject students have the opportunity to initiate their own project in the environmental communications field.

88604**Illustration 4***6cp*

Continuation of 88504.

88605**Photography 4***6cp*

Continuation of 88505.

88606**Textiles 4***6cp; prerequisite: 88506 Textiles 3*

This subject takes a more practical design approach to the exploration of textile and surface design. Students are encouraged to apply knowledge gained from previous levels to conceptual design projects for interior/industrial application. Students are encouraged to develop simulated digital textiles, source appropriate/suitable fabrics, research to conceptual use of textiles in the built environment and present visual documentation of selected textiles and associated surfaces to a specific project or site.

88603**Film and Video Design 4***6cp*

Continuation of 88503.

88609**Transportation Design 4***6cp*

Continuation of 88509.

88610**Design and Sustainable Human Futures 4***6cp*

Continuation of 88510.

88611**Furniture Design 4***6cp*

Continuation of 88511.

88612**Design for Theatre 4***6cp*

Continuation of 88512.

Postgraduate courses

by coursework

The Faculty houses one of the largest and most comprehensive centres for design education in Australia, and offers courses at Graduate Certificate, Graduate Diploma and Master's by coursework levels, in addition to a number of continuing Professional Education programs.

Regulations

These regulations are to be read in conjunction with the University's Rules and By-law, as outlined in the *UTS Calendar*.

Awards and graduation

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

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

Assessment

The assessment period is one semester.

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

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

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

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

Record of Project Work

Two copies of a full documentary record of a candidate's project shall be submitted in the approved format, available from the Director of Program.

Graduate Certificate in Design and Technology

Course code: D059

This 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 and 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.

Requirements

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	Design and Technology ²	4cp
89912	Design Case Studies 1 ¹	4cp
89914	Design Practice 1 ²	4cp

Spring semester

89104	Design and Society ²	4cp
89013	Design Case Studies 2 ¹	4cp
89012	Design Practice 2 ²	4cp

¹ Core subject

² Alternative core subject

Electives

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

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

See postgraduate subject descriptions.

Graduate Diploma in Design

Course code: D052

This is a one-year full-time or two-year part-time postgraduate course.

Aim

The course examines the nature and processes of design, the roles and responsibilities of designers and their profession, and the impact of design on 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 aims to provide a useful understanding of design and 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.

Requirements

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

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

Autumn semester

81920	Marketing and Design ²	4cp
89912	Design Case Studies 1 ¹	4cp
89914	Design Practice 1 ¹	4cp

Spring semester

81020	Management Techniques and Design ²	4cp
89013	Design Case Studies 2 ¹	4cp
89012	Design Practice 2 ¹	4cp

¹ Core subject

² Alternative core subject

Electives

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

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

See postgraduate subject descriptions.

Master of Design (by coursework)

Course code: D051

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.

Requirements

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

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

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

¹ Core subject.

² Alternative core subject.

Project

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

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

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

See postgraduate subject descriptions for details.

Postgraduate

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.

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

Design studies

82912¹

Design Seminar

4cp

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

89012¹

Design Practice 2

4cp

This subject continues on from 89914 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.

89013¹

Design Case Studies 2

4cp

A continuation of 89912 Design Case Studies 1.

89104¹

Design and Society

4cp

This subject develops issues raised in 89919 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. It focuses on project

briefing, evaluation, feedback and assessment as they affect all three groups: teacher/client; student/design; market/user.

89912¹

Design Case Studies 1

4cp

The subject covers the following topics: 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 design, textile design, industrial design, film and television production, graphic design, exhibition design. Lectures involve practising designers, who focus on their professional roles, responsibilities and methods.

89914¹

Design Practice 1

4cp

This subject covers design methods and techniques of research, decision making and evaluation involved in the practice of design and 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.

89917¹

Design Project (P/T)

12cp

This subject is a program of individual supervised research or design activity undertaken by each student.

Assessment is made on submission of an original body of work which usually includes four elements or phases: research, development, evaluation and report. Topics covered include the following: research, new product development, packaging, pricing, promotion, advertising, product image, test marketing, strategies and tactics for existing products, services and societal marketing, legislation, consumerism.

89918¹**Design Project (F/T)**

24cp

As for 89917 Design Project (P/T).

89919¹**Design and Technology**

4cp

This subject 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.

¹ Core subjects for some courses.

Design Computing Studies

Several strands of design computing are offered to give students the 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 is undertaken to provide 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

This subject provides the opportunity for selected postgraduate students to apply computer techniques to specific design projects using advanced graphics/animation programs.

81030**3D Computer Animation 2**

4cp

This subject 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

This subject provides students with 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 provide direct experience of complex systems.

81922**Computer-aided Design**

4cp

This subject provides students with 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 provide direct experience of typical systems.

81923**Introduction to Design Computing**

4cp

This subject provides students with 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 I***4cp*

This subject 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.

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.

81020¹**Management Techniques and Design***4cp*

This subject provides students with a working knowledge of the range of management skills and techniques used in the planning and control of design projects. It 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; and union and labour relations.

81920¹**Marketing and Design***4cp*

This subject provides students with a working knowledge of the concept of marketing, and an understanding of the problems faced by management in achieving marketing success. It 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, and consumerism.

81921**Innovation, Management and Design***4cp*

This subject provides students with an understanding of innovation, its place in the planning and management of commercial and industrial firms, and the role of the designer in the processes of innovation and change. It 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 and predictive models.

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*

This subject gives a historical perspective on design and designers. Lectures, seminars and tutorials are 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 I for advanced investigation of a design topic.

82016**Graphic Visualisation***4cp*

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

¹ Core subjects for some courses.

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 I**

4cp

This subject 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 the 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.

Methodology Studies

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

82004¹**Design Decision Making**

4cp

This subject provides students with 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 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.

82013¹**Research Seminar**

4cp

This subject gives students an understanding of the role and incentive for research in areas associated with design and enables them to assist each other in the early development of research projects. The subject consists of a series of lectures and student presentations.

82905¹**Research Methods**

4cp

This subject gives students an understanding of methods of research. It 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).

¹ Core subjects 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

This subject 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

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

82903¹

Technological Change

4cp

This subject provides an appreciation of political, economic and social influences on technological change and the processes developed to foster technological change. Particular emphasis is given to the Australian situation.

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

This subject 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.

82901¹

Psychology of Design

4cp

This subject 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 following: the fundamentals of human perception; nonverbal communication; human behaviour in small-scale environments such as workplaces and domestic situations; and human behaviour in large-scale environments such as towns and cities.

82902

Sociology of Design

4cp

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

¹ Core subjects for some courses.

Programs in *Architecture*

Undergraduate courses

Overview of courses

In 1996 a revised architecture course was introduced by the Faculty. The existing course, a six-year cooperative education program leading to the award of the degree of Bachelor of Architecture, is being progressively replaced by a two-tier degree structure comprising a **Bachelor of Arts in Architecture**, awarded after successful completion of the first four years of the course, followed by either a **Bachelor of Architecture** or a **Master of Architecture** degree after a further two years of study.

The Bachelor of Architecture is a professional degree i.e. a qualification accepted for candidates seeking to take the professional examination of the Board of Architects and RAlA as a prerequisite to registration under the provision of the Architects Act. It may be **undertaken only after** the successful completion of the Bachelor of Arts in Architecture degree (or equivalent), a degree which by itself does **not** lead to professional recognition.

Please note that for administrative purposes **all** potential students, irrespective of the likelihood of entry with advanced standing **must** apply for entry to the Bachelor of Arts in

Architecture program; neither the Bachelor of Architecture nor the Master of Architecture may be undertaken as a 'stand alone' degree.

In 1997 the new Bachelor of Arts in Architecture degree program will be introduced into the fourth year of the course. Accordingly, students entering (or repeating) Years 5 or 6 in 1997 will enrol in the 'old' Bachelor of Architecture course as normal. Details of the existing course structure and subject descriptions are provided below in the section 'Bachelor of Architecture' ('old' program).

All students entering Years 1 – 4 inclusive of the course in 1997 will enrol in the Bachelor of Arts in Architecture program. Details of the new program structure and subject descriptions for the BA in Architecture degree are provided below in the section 'Bachelor of Arts in Architecture'.

Under the revised course structure students may be eligible to undertake a range of degree options, and may choose to undertake such degrees in a variety of year patterns. The chart below outlines seven likely patterns. Please note that Option 1 is only available to students enrolling in the 'old' Bachelor of Architecture program in Years 5 and 6 in 1997.

Option	Award		cp	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	
1	BArch	Final 1998	192				co (32)	co (32)	co (32)		
2	BA in Arch	Intro. 1996	144	F/T (48)	co (32)	co (32)	co (32)				
3	BA (Hons) in Arch	Intro. 1996	180	F/T (48)	co (32)	co (32)	F/T (62)				
4	BA (Hons) in Arch	Intro. 1997	180	F/T (48)	co (32)	co (32)	co (32)	co (30)			
5	BArch (Hons)	Intro. 1998	208	prerequisite - BA in Arch				co (32)	co (32)		
6	MArch	Intro. 1998	276	prerequisite - BA (H) in Arch				F/T (48)	F/T (48)		
7	MArch	Intro. 1998	276	prerequisite - BA (H) in Arch				co (32)	co (32)	co (32)	

Course aims – cooperative education

A fundamental aim of the architecture courses offered in the Faculty is to provide opportunities for students to combine study with practice, which is realised through the use of a combination of full-time and cooperative education programs.

The essence of cooperative education is the joint provision of architectural education by both the academy and the architectural profession. By such means a balance is maintained between intellectual study and practical training, between the study of architecture as a scholarly discipline in the University and the provision and development of professional skills in the workplace. Students thus engage contemporaneously in academic pursuits and practice through carefully monitored programs.

Delivery of architectural education in the cooperative mode places serious pedagogical obligations on both providers and students. On the part of the University, the obligation is to provide intellectual training by offering informed and challenging programs that treat in detail the study of architecture as a scholarly discipline. On the part of the profession, in cooperation with the University in the provision of architectural education, the obligation is to provide the practical training and experience that leads to the development of the skills necessary for the pragmatic practice of architecture as a professional and vocational discipline. On the part of the student the obligation is to assimilate the two, to weld the intellectual with the practical, the academic with the vocational, the University with the profession.

This parallel development in intellect and practice makes for balanced and well-informed students who can contribute at all stages of their education to their vocational discipline. The structure of the program also allows for maximum flexibility of study choices and career specialisation.

In general the cooperative education model means that students attend the university for one full day (9.00 a.m. – 9.00 p.m.) plus one additional evening (5.00 p.m. – 9.00 p.m.) per week during semester, while at the same time gaining practical experience by working, and thus being trained in an architect's office for at least a further three days per week.

Approved architectural experience is a precondition of the award of each of the degrees. Generally it takes approximately two years for a student to accumulate sufficient practice credit points to qualify for the award of the Bachelor of Arts in Architecture degree, and four years to qualify for the awards of the Bachelor of Architecture or the Master of Architecture degrees.

At the completion of the academic program, and with the signed approval of the Director of Professional Practice, a student may submit a completed log book to the Board of Architects for confirmation of eligibility to submit for the Board of Architects Examination with a view to qualifying for vocational registration.

All information regarding registration with the Board of Architects and membership of the NSW Chapter of the Royal Institute of Australian Architects may be obtained from:

The Registrar Board of Architects of NSW 'Tusculum' 3 Manning Street, Potts Point 2011 (telephone: 9356 4900).

Portfolio reviews and viva voce examinations

Portfolio reviews

At Year 1, 2 and 3 of the BA in Architecture and BA (Hons) in Architecture degree programs the subjects 11911/11921/11931 (Architectural Design 1, 2 and 3) and 11912/11922/11932 (Technology 1, 2 and 3) are monitored by a Portfolio Review Panel which inspects the year's work of each student, monitors the marks awarded by her or his tutors, and then arrives at a final grading by consensus. At Year 5 level of the new Bachelor of Architecture/ Master of Architecture degree program the single subject 11951 (Architectural Design and Technology 1) is similarly reviewed.

The Portfolio Review Panel will consist of some or all of the following:

Professor of Architecture

Subject-strand Director: Architectural Design

Subject-strand Director: Technology

Subject Coordinator: Construction

Subject Coordinator: Structure

Subject Coordinator: Environmental Science

Three student representatives from the Year level being examined.

All staff contributing to these specific subjects and/or components in the Year level being examined.

This approach ensures that consistent standards can be applied and provides stringent safeguards.

Viva voce examinations

At Year 4 level of the BA/BA (Hons) degree programs, and at Year 6 level of the new Bachelor of Architecture/Master of Architecture programs, the subjects 11941 (Architectural Design 4) and 11961 (Architectural Design and Technology 2) respectively will be examined by way of a *viva* review.

In the 'old' Bachelor of Architecture program the subjects 11052 Design 5 and 11062 Design 6 are examined by *viva voce* review.

Bachelor of Architecture (old program)

Course code: AA02

Students entering (or repeating subjects in) Years 5 or 6 in 1997 will enrol in the 'old' Bachelor of Architecture program as normal.

Course structure

Year 5 (Last offered in 1997)

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 (Last offered in 1998)

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	

Bachelor of Arts in Architecture

Course code: AA03

1996 saw the introduction of the 'new' Bachelor of Arts in Architecture program in the Faculty. The Bachelor of Arts in Architecture degree provides the first of a two-tier professional education course offered within the Faculty, the second tier comprising the 'new' Bachelor of Architecture/Master of Architecture programs which are outlined below.

The Bachelor of Arts in Architecture is a four-year program which may be undertaken as either a Pass degree or as an Honours degree.

In 1997, Year 4 of the Bachelor of Arts in Architecture program will be offered for the first time. Students entering (or repeating subjects) in Year 4 in 1997 will enrol in the new program.

Pass degree

The Pass degree of Bachelor of Arts in Architecture is of four years' duration and comprises 144 credit points.

Year 1 is undertaken via full-time study, comprises 48 credit points and involves the equivalent of 21 contact hours per week over two semesters. Years 2, 3 and 4 are undertaken as part of a cooperative education program, with each year comprising 32 credit points and involving the equivalent of 13 contact hours per week over two semesters.

While all subjects are compulsory in the Bachelor of Arts in Architecture program, a wide range of content choices, and opportunities for specialisation, are available to students via the subjects 'Elective Studies'.

Course structure

Year 1

11911	Architectural Design 1	17cp
11912	Technology 1	13cp
11913	Theory Studies 1	9cp
11914	Professional Practice 1	3cp
11915	Elective Studies 1	6cp

Year 2

11921	Architectural Design 2	8cp
11922	Technology 2	9cp
11923	Theory Studies 2	9cp
11924	Professional Practice 2	—
11925	Elective Studies 2	6cp

Year 3

11931	Architectural Design 3	8cp
11932	Technology 3	5cp
11933	Theory Studies 3	9cp
11934	Professional Practice 3	4cp
11935	Elective Studies 3	6cp

Year 4

11941	Architectural Design 4	10cp
11942	Technology 4	12cp
11943	Theory Studies 4	6cp
11944	Professional Practice 4	4cp

Any students **entering** the architecture course at Year 4 level i.e. entering with advanced standing, will **not** be eligible for award of the Bachelor of Arts in Architecture degree, at either pass or Honours level, after the successful completion of Year 4 of the BA program. For such students Year 4 will be considered as a **qualifying year** for entry to Years 5 and 6 of the course. Students must have been enrolled for, and have successfully completed, a minimum of two full years of the program to be eligible for receipt of the degree.

Students wishing to undertake the Master of Architecture program in Years 5 and 6 will be required to successfully complete the Year 4 Honours program at the requisite level prior to such enrolment.

Eligibility for the Honours program

Any student who has passed all subjects at Years 1 and 2 level **and** recorded no failures at Years 1 or 2 level, may elect to undertake the Honours Qualifying program in Year 3. The decision to undertake the Honours Qualifying program will be made at the beginning of Semester 2 of Year 3, with students undertaking additional work towards the Honours degree in that semester.

To qualify for entry into the Honours program in Year 4, students undertaking the Honours Qualifying program in Year 3 must:

- (1) pass all subjects undertaken at Year 3 level, including any elective subjects undertaken outside the program;
- (2) obtain a weighted average mark at credit level or above calculated on the basis of all subjects undertaken and required for the Pass degree at Year 3 level;
- (3) pass the subject 11936 Honours Qualifying at credit level or above.

Students who do not meet these requirements will undertake the Pass degree program in Year 4.

Students who have already successfully completed the Pass degree of BA in Architecture and who wish to undertake the Honours program will be eligible to do so provided that they:

- (1) have recorded no fails at Year 3 and 4 level;
- (2) have obtained a weighted average mark at credit level in all Year 3 and Year 4 subjects;
- (3) have not previously attempted and recorded a fail in the Year 3 and/or 4 Honours program; and
- (4) enrol in the Honours program in the academic year immediately following that in which they have completed the BA Pass degree and thus prior to their receipt of that degree. Such students would be exempt from the Year 3 Honours Qualifying program but would be required to undertake the full Year 4 Honours program. Please note that in such cases only one BA degree will be awarded.

Bachelor of Arts (Honours) in Architecture

Course code: AA04

The Honours degree of the Bachelor of Arts in Architecture is an essential component of the educational profile established within the new course structure, particularly in light of the continuation of the professional course at both Bachelor of Architecture and Master of Architecture level. Entry to the professional Master's program will be via the BA (Honours) in Architecture program. The Honours degree is of nominally four years' duration and comprises 180 credit points. To be awarded the Honours degree of Bachelor of Arts in Architecture a candidate must fulfil all the requirements for the Pass degree **plus**

- (1) undertake and achieve at least a credit grade in the Year 3 subject 11936 Honours Qualifying;
- (2) undertake and achieve passes in the Year 4 subjects 11945 Honours Elective Thesis and 11946 Design Honours;
- (3) have recorded no fails in any Year 3 or 4 subjects;

- (4) obtain a weighted average mark at credit level or above calculated on the basis of all subjects undertaken and required for the Pass degree at Year 4 level.

Class of Honours

Provided that the above conditions have been met, the class of Honours to be awarded will be determined as follows, subject to Faculty Board approval:

First Class Honours – weighted average mark of 75 or above in subjects 11945 Honours Elective Thesis and 11946 Design Honours

Second Class Honours Division 1 – weighted average mark of ≥ 70 but < 75 as above

Second Class Honours Division 2 – weighted average mark of ≥ 65 but < 70 as above

Third Class Honours – weighted average mark of ≥ 50 but < 65 as above

Students who undertake the Honours program in Year 4 but who record failures in any of the Honours components will (having satisfactorily completed all other subjects) be awarded the Pass degree of Bachelor of Arts in Architecture.

Note: under special conditions the Year 4 subject 11946 Design Honours may be substituted for an equivalent subject. See details below 'special conditions for elective in Year 4'.

Course structure

Year 1

11911	Architectural Design 1	17cp
11912	Technology 1	13cp
11913	Theory Studies 1	9cp
11914	Professional Practice 1	3cp
11915	Elective Studies 1	6cp

Year 2

11921	Architectural Design 2	8cp
11922	Technology 2	9cp
11923	Theory Studies 2	9cp
11924	Professional Practice 2	-
11925	Elective Studies 2	6cp

Year 3

11931	Architectural Design 3	8cp
11932	Technology 3	5cp
11933	Theory Studies 3	9cp
11934	Professional Practice 3	4cp
11935	Elective Studies 3	6cp
11936	Honours Qualifying	6cp

Year 4

11941	Architectural Design 4	10cp
11942	Technology 4	12cp
11943	Theory Studies 4	6cp
11944	Professional Practice 4	4cp
11945	Honours Elective Thesis	24cp
11946	Design Honours	6cp

Honours program in Year 4

The Honours program in Year 4 may be undertaken either:

- concurrently with all other Year 4 subjects as a full-time year (32+30=62 credit points). Students wishing to take this option would begin research for their major Honours thesis immediately after receiving notification of their successful completion of the full Year 3 program (i.e. mid December of the third academic year);

or

- over two years in a cooperative education mode. Students wishing to take this option would be required to undertake the subjects 11941 Architectural Design 4, 11942 Technology 4, 11943 Theory Studies 4 and 11944 Professional Practice 4 in the first year (32 credit points) followed by the subjects 11946 Design Honours, and 11945 Honours Electives Thesis in the second year (30 credit points).

Yearly progression

- The BA in Architecture and the BA (Honours) in Architecture programs encourage maximum integration between architectural design subjects and those dealing with technology. Accordingly, students who fail, at any given year level, **either** the subject Architectural Design **or** the subject Technology (or both), will not be allowed to enrol in **any** subject in the next year level until these subjects have been passed. Neither architectural design subjects nor technology subjects can be 'carried' into a subsequent year.

Example – a student who had passed 11912 Technology 1 but who had failed 11911 Architectural Design 1 would be prohibited from enrolling in **any** Year 2 subjects until the subject 11911 Architectural Design 1 had been successfully repeated.

- Subjects other than the architectural design and technology subjects may, at the discretion of the Program be 'carried' into a subsequent year. However, failed

subjects can only be carried into the subsequent year provided that the **total** number of subjects failed does not exceed **two**. Any student who fails more than two subjects at any year level will not be allowed to proceed to the next level of study.

Example – a student who passed both Architectural Design 1 and Technology 1 but who failed two of the other Year 1 subjects would be allowed to carry the two failed subjects into Year 2, thus enrolling in a full Year 2 program **plus** the two failed Year 1 subjects.

3. Students carrying subjects may enrol only in subjects that are in two consecutive years of the course.

Example – as described above, a student may undertake Year 2 subjects while carrying up to two Year 1 subjects. However, a student would not be allowed to enrol in **any** Year 3 subjects until **all** Year 1 subjects had been successfully completed.

4. In addition to the above, entry to Years 3 and 4 are dependent on each student accruing the specified amount of architectural experience points, gained by virtue of their compulsory work in architectural offices.

Elective studies

In each of Years 1, 2 and 3 of the BA program all students will be able to choose to study areas of specific interest by enrolling in the subjects Elective Studies 1, 2 and 3. At each year level the subject carries a weighting of six credit points, thus allowing students to undertake either two components at three credit points each or one component at six credit points.

Students will be free to choose from a range of available options as follows:

1. components offered within the Architecture program;
2. subjects offered in other programs in the Faculty of Design, Architecture and Building, subject to approval by the Program concerned;
3. subjects offered in other faculties in the University, subject to approval by the Faculty concerned.

In some instances students may choose to 'overload' by taking a subject outside the Architecture program which carries **more than** six credit points. In this case the subject will nevertheless count as **only** six credit points towards the BA in Architecture degree.

Components offered within the Architecture program may vary from year to year depending on staff availability. Components to be offered within the BA in Architecture program in 1997 are listed below. Students will be advised of any changes/additions at the beginning of the academic year.

In special instances students may be directed to utilise the six credit points available in the Elective Studies strand to 'pick up' a compulsory subject that they might otherwise have missed. For example, given the Program's commitment to acknowledging previous educational experiences, students accepted directly into the course at Year 2 or 3 level may be required, as a condition of their enrolment with advanced standing, and in order to address a perceived 'lack' in their previous education, to undertake prescribed subjects or components from an earlier year.

In all such cases, all required subjects will be confirmed with individual students prior to enrolment.

Note that in some elective components maximum class size may be limited according to availability of facilities.

In terms of timetabling, appropriate teaching hours will be allocated in each of the first three years for Elective Studies. Since students may elect to choose subjects from outside the Architecture program, these timetable hours refer only to elective components offered **within the program**. Additionally, students should note that subjects taken outside the Architecture program must not conflict with the program's timetable for compulsory subjects.

Students entering the Architecture program with previous university experience may request exemptions from the subject Elective Studies at the appropriate year level(s).

Elective subjects offered within the Architecture program

Subject to staff availability the following elective components will be offered within the Architecture program in 1997:

Year 1

11915 Elective Studies 1:
History of Architecture 1

Year 2

11925 Elective Studies 2:
Sustainable Architecture 1
11925 Elective Studies 2:
Architectural Computing 2E¹
11925 Elective Studies 2:
Architectural Photography 1¹

Year 3

11935 Elective Studies 3:
Sustainable Architecture 2
11935 Elective Studies 3:
History of Architecture 3E

¹ Maximum class size is 25.

Further details may be found in the 'Subject descriptions' section.

Elective subjects available in the Faculty in 1997

Certain subjects from programs in the discipline of Design may be available as suitable elective subjects for students enrolled in the BA in Architecture degree. As a general principle, students enrolled in Year 1 of the BA in Architecture might consider those subjects offered in the Design discipline under the heading of 'General Studies', while students enrolled in Years 2 and 3 might consider those offered under the general heading 'Minor Studies'. Further details may be found in the relevant section of this Handbook.

Additionally certain subjects from programs in the discipline of Building Studies may be available as suitable elective subjects for students enrolled in the BA in Architecture degree. Further details may be found in the relevant section of this Handbook.

Elective subjects offered by other faculties

Students may undertake subjects in other faculties of the University, subject to approval by both the specific Faculty concerned and by the Coordinator of Electives in the Architecture program.

Special conditions for elective in Year 4

While students wishing to undertake the Bachelor of Architecture degree must first successfully complete all subjects in the BA in Architecture degree, and those wishing to undertake the Master of Architecture degree must complete the BA (Honours) in Architecture degree at the required level, certain students may not wish to proceed to the professional degrees, choosing instead to leave after completion of either the Pass or the Honours degree of BA in Architecture. In such cases a student may, with the permission of the Program Director of Architecture, elect **not** to enrol in the subject 11941 Architectural Design 4, but rather to undertake a special Year 4 Elective Studies program, valued at 10 credit points. This would be in an area of the student's special interest, such a course of action allowing for greater flexibility and offering the potential for the development of alternative career specialisations at an early stage.

In the immediate future, and for reasons of the availability of resources, only a limited range of alternatives will be offered within the Architecture program and, depending on the student's intended specialty or future study plans, he or she will be encouraged to look to other areas of the Faculty/University.

As from 1999, however, exiting students may apply to complete, as part of their fourth year of study, certain subject strands offered within the newly introduced Bachelor of Architecture course by undertaking components from Years 5 and 6 to **replace** the 10 credit points of 11941 Architectural Design 4. The following would be possibilities:

Environmental Science 5 and 6	equiv. 10cp
Theory and Architecture 4 and 5	equiv. 10cp
Urban Studies 3 and 4	equiv. 10cp
Architectural Practice 4 and 5	equiv. 10cp

Students undertaking the above option would still be eligible for enrolment in the BA (Honours) in Architecture program but would need to undertake an alternative component equivalent to the required Design Honours component in Year 4.

Any student choosing to undertake the special Year 4 elective would, thereby, not undertake the subject Architectural Design 4, and would therefore not be permitted to enrol in either the Bachelor of Architecture or in the Master of Architecture program until the subject Architectural Design 4 had been successfully completed at the requisite level.

Further professional degrees

Bachelor of Architecture (revised program)

Course code: AA05

Overview

Following the successful completion of four years of architectural education at UTS or its judged equivalent at another institution as determined by the Program Admissions Panel, the Faculty will offer a further degree program – the Bachelor of Architecture.

The Bachelor of Architecture is a professional degree i.e. a qualification accepted for candidates seeking to take the professional examination of the Board of Architects and Royal Australian Institute of Architects as a prerequisite to registration under the provision of the Architects Act administered by the Board of Architects of NSW; and professional membership of the Institute. The degree program is of two years' duration and may be **undertaken only after** the successful completion of the Bachelor of Arts in Architecture degree at pass or Honours level (or qualification judged equivalent). The Bachelor of Architecture degree is undertaken as part of a cooperative education program over two years – referred to here as Years 5 and 6 – each comprising 32 academic credit points, and involving the equivalent of 13 contact hours per week in each year over two semesters.

Total minimum academic credit-point requirement before the professional Bachelor of Architecture degree may be awarded is 208: 144 obtained from the Pass degree of BA in Architecture, plus 64 from the Bachelor of Architecture. Students entering with a BA (Honours) degree in Architecture (180cp) must nevertheless complete all 64 credit points of the Bachelor of Architecture program.

All subjects in the Bachelor of Architecture degree are compulsory.

On the basis of the weighted average mark achieved across all subjects the Bachelor of Architecture degree will be awarded **with Honours** as outlined below.

Course structure

Year 5

11951	Architectural Design and Technology 1	17cp
11953	Theory Studies 5	10cp
11954	Professional Practice 5	5cp

Year 6

11961	Architectural Design and Technology 2	17cp
11963	Theory Studies 6	10cp
11964	Professional Practice 6	5cp

Availability in 1998/1999

The first year of the revised Bachelor of Architecture program (the fifth year of the combined Architecture course) will be offered for the first time in 1998, with the second year (the sixth of the combined course) being offered in 1999.

Eligibility for entry

The Bachelor of Architecture program may be undertaken **only after** the successful completion of either the Pass or Honours degree of Bachelor of Arts in Architecture, or the equivalent from another institution as judged by the Program Admissions Panel.

All students who have successfully completed the four-year BA in Architecture or BA (Honours) in Architecture degree at UTS will automatically be accepted into the Bachelor of Architecture program as continuing students provided that they enrol in the Bachelor of Architecture in the next academic year after award of the degree, or seek leave of absence for no longer than one academic year after the award and have the required amount of architectural experience for entry into Year 5.

Note: entry to each of Years 3, 4, 5 and 6 of the course is based on each student accruing a specified minimum number of architectural practice credit points based on their office experience. While this specified minimum may, under special circumstances, be relaxed at Year 3 and 4 levels, entry to Year 5 and 6, and the awarding of the Bachelor of Architecture degree, is **strictly conditional upon** students accruing in each case the

specified minimum number of points prior to enrolment/graduation. Details of practice credit-point requirements may be obtained from the Director of Professional Practice.

Students applying with suitable qualifications from other institutions, or UTS BA in Architecture graduates who have not proceeded directly to the Bachelor of Architecture course, would be 'external students and would apply through UAC in the normal way. 'External' applicants would constitute new students and entry places would be limited, depending on quotas (available EFTSU).

Awarding of Bachelor of Architecture degree with Honours

The Bachelor of Architecture will be awarded **with Honours**, with the class of Honours being based on the weighted average mark calculated on the basis of all subjects attempted in Years 5 and 6 as follows, subject to Faculty Board approval:

First Class Honours 75 or above

Second Class Honours ≥ 65 but ≤ 75

There will be no award of Third Class Honours in the Bachelor of Architecture program. Students who do not meet the above criteria but who pass all subjects in Years 5 and 6 will be awarded the Pass degree of Bachelor of Architecture. In addition, students who at any stage record a fail grade in any subject(s) in Years 5 and/or 6 will be awarded the Pass degree once all subjects have been successfully completed.

Yearly progression

Students who fail the subject 11951 Architectural Design and Technology 1 (Year 5) may not enrol in **any** Year 6 subject until the former subject is successfully repeated.

All Year 5 subjects other than 11951 Architectural Design and Technology 1 may, at the discretion of the program, be 'carried' into the subsequent year. However, any student who fails more than one subject in Year 5 will not be allowed to enrol in any of the subjects in Year 6 until the failures have been made good.

In addition, and as outlined above, entry to Years 5 and 6 will be strictly conditional upon each student having accrued the requisite number of architectural experience points for that year level.

Master of Architecture (by coursework)

Course code: AA55

Following the successful completion of four years of architectural education at UTS (or its judged equivalent at another institution as determined by the Program Admissions Panel) culminating in the award of a BA (Honours) degree in Architecture at 1st or 2.1 level (equivalent to 180 credit points) the Faculty will offer a further degree program – the Master of Architecture – **as an alternative to the Bachelor of Architecture.**

The Master of Architecture degree is **not** a 'stand alone' degree; it can **not** be undertaken as a postgraduate course following the award of a Bachelor of Architecture degree. It is specifically structured so that it may, for those students undertaking it, **replace** the Bachelor of Architecture degree. It will **not** be awarded in addition to the BArch, as described below.

The Master of Architecture degree is a professional degree of two years full-time duration (referred to here as Years 5 and 6) or three years cooperative education comprising a further 96 credit points in total.

The Master's program comprises **all the requirements for the Bachelor of Architecture degree (180cp from BA + additional 64cp)** plus an additional subject. This subject, the Master's Research Elective, comprises a further 32 credit points and may be taken either:

1. concurrently with all other Year 5 and 6 subjects as two full-time years ($32+16=48\text{cp}$ per year \times 2 years = 96cp)
or
2. following completion of the 'normal' Year 5 and 6 subjects (32cp per year \times 2 years = 64cp), as one additional year (Year 7) involving a further 32cp ($64 + 32 = 96\text{cp}$).

Total academic credit-point requirement before the professional Master of Architecture degree may be awarded is 276 (180 obtained from the Honours degree of BA in Architecture + 96).

All subjects in the Master of Architecture degree are compulsory, with considerable flexibility of subject content being offered in the Master's Research Elective components.

Availability in 1998/1999

The first year of the Master of Architecture program (the fifth year of the combined Architecture course) will be offered for the first time in 1998, with the second year (the sixth of the combined course) being offered in 1999.

Course structure

Year 5

11951	Architectural Design and Technology 1	17cp
11953	Theory Studies 5	10cp
11954	Professional Practice 5	5cp
11956	Master's Research Elective (Part 1)	16cp

Year 6

11961	Architectural Design and Technology 2	17cp
11963	Theory Studies 6	10cp
11964	Professional Practice 6	5cp
11956	Master's Research Elective (Part 2)	16cp

Eligibility for entry

Entry to the Master of Architecture program proceeds via three possible routes. Conditions of entry and course requirements for each are listed below.

Candidates entering with a UTS Honours degree of BA in Architecture:

Candidates seeking to enter the Master of Architecture program from Year 4 of the first degree program would be required to hold a Bachelor of Arts in Architecture with First Class or Second Class, Division 1 Honours (including the subject Architectural Design 4).

Candidates entering with an equivalent first degree in Architecture from another institution:

All candidates seeking to enter the Master of Architecture program with a first degree in Architecture from another institution would be subject to a portfolio interview conducted by the Program Admissions Panel. Such candidates must:

1. be able to demonstrate that they hold the equivalent of a First Class or Second Class, Division 1, Honours degree of BA in Architecture from UTS;
2. satisfy the interviewing panel that their architectural design work is of a standard comparable to that of the credit level achieved by Year 4 students at UTS; and
3. have previously successfully undertaken a major piece of academic writing equivalent to the Honours Elective thesis as described above.

Students who do not satisfy the above requirements would normally be expected to undertake all or part of the Year 4 BA (Honours) in Architecture program before being eligible to enrol in the Master of Architecture degree.

In some cases it may be necessary, in order to address perceived deficiencies or structural differences in previous educational programs, for such candidates to undertake all or part of the Year 3 BA in Architecture program, as well as that of Year 4.

Candidates from other institutions who meet the above entry requirements would be eligible for enrolment and would undertake the program as outlined above. Note, however, such 'external' applicants would constitute new students and entry places would be limited, depending on quotas (available EFTSU).

Candidates completing all requirements for a UTS Bachelor of Architecture degree:

Candidates who have completed all requirements for the UTS Bachelor of Arts degree may, provided they have not yet been awarded the BArch degree, be eligible as candidates for the Master of Architecture degree provided that:

1. they have not recorded fails in any subject required for the BArch degree;
2. have achieved a weighted average mark of 70 or above calculated on the basis of all subjects undertaken in Years 5 and 6;
3. have not already attempted the Honours component of the BA and achieved a result less than 65. Please note that such candidates will be required to complete in one additional year of study the subject Masters Research elective; and that the Masters degree will not be awarded in addition to the Bachelor of Architecture.

Awarding of Master of Architecture degree

To be awarded the Master of Architecture degree, students must (a) pass all required subjects in Years 5 and 6 at credit level or above, and (b) must have recorded no failures in any subjects in Years 5 and 6. Students enrolled in the Master's program in Year 5 who fail any subjects will revert in Year 6 to the Bachelor's program. Students enrolled in the Master's program in Year 6 who fail any subjects will be awarded the Bachelor of Architecture degree once all requisite subjects are passed.

Subject descriptions

The subject descriptions shown below indicate the subject code and name and the number of credit points for the subject. Also shown are the prerequisites, if any, and a brief outline of the content. Prerequisites are subjects which must be completed before taking the subject to which they refer.

Some subjects listed below comprise a number of individual components. Assessment for the subject as a whole will be based on the weighted aggregate assessment for the individual components which make up that subject.

Bachelor of Architecture (old program)

11052

Design 5

11cp; prerequisite: 11042 Design 4

This subject comprises design exercises relating to large-span buildings and urban design exercises.

11055

Contextual Studies 5B

5cp

This subject is an introduction to the concepts and practice of urban design, including: history; planning processes; urban structure and form; residential, commercial and public building infrastructures.

11056

Contextual Studies 5C

5cp

'Theories and issues in contemporary culture: (re)thinking architecture'. This subject comprises an investigation via an extensive reading program and seminar discussions, of issues in contemporary cultural and philosophical theory and their implications for thinking about architecture.

or

'Long life, low energy, loose fit'. This subject is an exploration of current theory and practice in respect to energy, environment and longevity issues in architecture. It is also a introduction to appropriate research methodologies.

11058

Architectural Practice 2A

3cp

This subject addresses law and ethics and includes aspects of partnership, company law, taxation, insurance, the law of master and servant, trade practice, the Architects Act and professional ethics.

11059

Architectural Practice 2B

3cp

This subject covers the financial management of architectural practices and of architectural projects, including relevant operations research.

11062

Design 6

11cp; prerequisite: 11052 Design 5

This subject involves the development and presentation of designs embodying all aspects of the design process which, in their synthesis, take account of socioeconomic, cultural and physical determinants. It includes urban design exercises.

11066

Elective Studies

5cp

'(Re)thinking architecture 2' is a more thorough examination (involving an extensive reading program and seminar discussions) of the implications of contemporary theory on the perception of architecture through a detailed study of particular theorists or theoretical positions. Specific focus will vary and will be determined after discussion with participating students.

or

This subject covers research methods in the evaluation of the functional efficiency of buildings and post-occupancy evaluation (user satisfaction) with detailed case studies of buildings in use.

I 1068**Architectural Practice 3A**

5cp

This subject consists of seminars on the legal base of the provisions of building contracts. Comparisons will be made between forms of contract in current usage and their administration, with case studies of practice situations being undertaken.

I 1069**Architectural Practice 3B**

3cp

This subject covers marketing theory and practice as it relates to architectural practice.

I 1071**Elective Project**

5cp

This subject requires students to prepare a written dissertation under the supervision of an approved staff member and on a topic approved by the Director of Dissertations, the supervisor and the candidate. The subject is undertaken in both Years 5 and 6.

I 3998**Architectural Experience**

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, in order to graduate.

**Bachelor of Arts
in Architecture****I 1911****Architectural Design I**

17cp

The subject Architectural Design is devoted both to the study of design, as an intellectual/academic discipline, and to the practice of designing, as a professional/practical discipline. In each year of the program key issues are addressed both through formal lectures and by means of practical project-based programs which seek to integrate with design practice the intellectual/academic work from other subject areas within the course. This integration of design and technology with

theory studies is the primary objective of the subject Architectural Design and is accomplished through work on project-based design programs. Such programs vary in size and content, from individual, specifically focused, exercises to more 'complete' projects, and are calibrated for increased complexity and difficulty throughout the course. In all stages of the design program there is a determination to demonstrate the relevance of linking theoretical studies and applied knowledge in critical assessments.

While the mode of delivery for the above is through project-based design exercises and projects, the traditional model of the studio – as the central or 'core' activity of architectural education, as a simulation of architectural practice, and as a locus of individual tuition based on the master/pupil model – can no longer be maintained. Rather, project-based exercises will be structured around interactive small group tutorial sessions involving approximately 15 to 20 students, under the direction of a variety of tutors, and with the specific subject content of each project being introduced via a series of lectures and papers. All design projects will be timetabled to show how this method of delivery is to operate; emphasise the integration of specific content from other subject areas within the program; and offer specific requirements and criteria for successful fulfilment of the program. In addition, the use of computer models as specific design aids will be stressed.

Components:**Projects 1, Weighting: 0.6**

Introduction to the concept of design as an activity which is fundamental to the making of habitable space. This involves developing an elementary understanding of the role of enclosed spaces, climate and materials in providing shelter, from the scale required by the individual to that of the group.

Architectural Computing 1, Weighting: 0.2

The use of the computer is studied as a tool to aid communication in all spheres of design. This component covers the following topics: basic CAD 2D, word processing and spreadsheet; application of Archi-CAD and 3D modelling; application of specific programs as design aids and tools of analysis; introduction to basic environmental modelling.

Architectural Graphics, Weighting: 0.1

This component is an introduction to the following: freehand drawing and graphic techniques; architectural drafting; projections and perspective; computer graphics.

Architectural Model Making, Weighting: 0.1

This component introduces students to elementary physical model making to show the construction and assemblage of buildings. Students will make models of landscape and buildings in their setting.

Note: In order that students may be certified to use the Faculty Workshop facilities, all Year 1 students will be required to undertake a training course of approximately 10 hours' duration, under the direction of the Workshop Manager.

11912**Technology I**

13cp

Central to an understanding of architecture and its technology is an appreciation of the relationship of construction to structure and to the technical servicing of buildings. This understanding is developed through the subject by integrating the study of construction, structure and services with project-based design exercises, where these components are taught concurrently with design programs, allowing students at all stages of their development to test their designs against the reality of the constraints of technology.

Components:*Construction I, Weighting: 0.5*

This component is an introduction to the constructional determinants of design. This is studied via an analysis of precedent which includes analyses of constructional systems and the ordering of building typologies. Statutory regulations and building codes are studied and case studies of small-scale, short-span, single-cell buildings are made.

Structure I, Weighting: 0.4

The practice of architecture necessitates the production of stable buildings. The study of structure is intended to sharpen the predictive ability of building designers in this respect. Students are expected to demonstrate numeracy in their ability to compare systems quantitatively, undertake indicative computer analyses, and to manipulate physical units of force, length and time.

It introduces students to the following: forces acting on buildings – gravity, wind, seismic, temperature, ground movement; resolution of forces; the classification of material properties – stress, strain, elasticity, ductility, strength; cross-sectional properties; introduction to bending moment and shear force plots; simple 2D structures – columns, beams, arches and cables; structographics; consequences of variation in load pattern and jointing details; and introduction to computer usage in all the above.

Architectural Surveying, Weighting: 0.1

This component is an introduction to the following topics pertaining to architectural surveying: terminology used; role of service performed and scope of work undertaken by either consultants or others; instruments and equipment used; field work applied to site surveys and measurement of existing buildings, including measured drawings; plotting of services, contours and other site characteristics; recording of site conditions; and locating boundaries and ownership limits via land records.

11913**Theory Studies I**

9cp

Components:*Environmental Science I, Weighting: 0.4*

This component will deal with issues related to the placement of the built environment in the general context of its surrounding environment from a climatological viewpoint. It covers the following topics: the earth's orbit around the sun; the aphelion and the perihelion; tilt of earth on its axis; effect of the above phenomena on net radiation received over the planet's surface for various latitudes; sun's declination and alternation of seasons; major world weather systems; sunshine and shade studies related to major climatic regions; and construction of solar charts.

Theory and Architecture I, Weighting: 0.3

This component is an introduction to architectural thinking. It covers principles of thinking, an introduction to reasoning and argument; problems and problem solving. It also introduces students to criticism, which involves close reading and interpretation, research and library skills.

Evolution of Human Settlement, Weighting: 0.3

This component reviews the migration and settlement of modern humankind (*Homo sapiens*) across the various landmasses of the planet. It focuses on response to place, climate and available resources. The role of social structures and cultural mores. It includes case studies by climatic zones: Hot Arid, Hot Humid, Arctic, Temperate, and Mediterranean.

[Details of an additional elective component to be offered will be available at the time of enrolment]

11914**Professional Practice I**

3cp

The importance given to studies related to professional practice is reflected in how they are structured within the course. Students are introduced, from the first year of the course, to the relationship of the professions to society, and to the importance of academic study and research in assuring that this role is properly fulfilled.

Component:*Architectural Practice 1, Weighting: 1.0*

This component covers the principles of architectural practice and the law. Topics include the following: law and ethics; aspects of trade practice and business structure; master and servant relationships; and taxation.

11915**Elective Studies I**

6cp

Components:*History of Architecture 1, 3cp*

The following will be offered in 1997. Students must undertake both topics.

The Architecture of Antique Greece and Rome

This topic will study: the development of the Classical Orders and of the theory of beauty in Greek architecture; the buildings of Athens, Delphi and Olympia; the Greek and Roman theatre; Roman domestic architecture; the emergence of Roman concrete as a major building material and as a medium for shaping space and volume; and Roman design theory and practice as reflected in the works of the Emperors Nero, Domitian, Trajan and Hadrian.

The Architecture of Medieval Europe

This topic will concern itself at first with the Early Christian and Byzantine architecture of Rome, Ravenna and Constantinople. Thereafter it will turn to Romanesque and Gothic architecture of France, England, Germany, Spain and Italy.

11921**Architectural Design 2**

8cp; prerequisites: 11911 Architectural Design 1; 11912 Technology 1

Component:*Projects 2, Weighting: 1.0*

This component encourages the development of design skills to meet the needs of more complex programs, including residential and related uses. This involves lectures and design exercises embracing social, environmental and technical issues in the grouping and assemblage of buildings.

11922**Technology 2**

9cp; prerequisites: 11911 Architectural Design 1; 11912 Technology 1

Components:*Construction 2, Weighting: 0.6*

This component involves the study of domestic scale building, which is also related to project-based design exercises. It covers the following topics: introduction to building economics; case studies of building failures; analysis of constructional systems; analysis of architectural detailing and its relationship to architectural design; integration of services and other technical and environmental constraints as they influence construction; and an introduction to post-occupancy evaluation.

Structure 2, Weighting: 0.4

This component is an introduction to code loadings and the effect of materials and codes on joint detailing. It covers the following topics: the study of stability of low-rise 3D structures to gravity, lateral and torsional actions; bending and shear stress distribution over element X-sections; consequences of hyperstatic systems; composite materials and systems; and the use of computer techniques in all the above.

11923**Theory Studies 2**

9cp

Components:*Environmental Science 2, Weighting: 0.4*

This component follows on from the work done in 11913 Theory Studies 1: Environmental Science 1, by introducing the topic of energy exchange mechanisms within the built environment. The contribution made by sensible heat load from the occupants and equipment will be discussed, as will the role of the building envelope as an environmental modifier and filler.

Theory and Architecture 2, Weighting: 0.3

This subject is a continuation of previous work on architectural thinking. It introduces students to the following: the literature of creativity; design thinking and the possibility of method; criticism and architecture; types of criticism; and the political and ethical responsibility of the critic.

History of Architecture 2, Weighting: 0.3

Topics offered in 1997 are as follows:

The Architecture of the Early Renaissance, Weighting: 0.15

The areas of study covered in this topic are as follows: early 15th-century Florence and the work of Filippo Brunelleschi; the writings and building projects of Leon Battista Alberti; the development of the urban *palazzo* in 15th-century Florence, Pienza and Urbino; Donato Bramante in Milan and Rome; Michelangelo in Florence and Rome; and the early 16th-century projects of Raphael and Giulio Romano.

High Renaissance and Baroque Architecture, Weighting: 0.15

Starting with the High Renaissance buildings of Ammanati, Vignola and Palladio, this topic will proceed to an analysis of Baroque architecture through the works of Maderno, Bernini, Borromini, Longhena, Guarini, Neumann, Zimmermann, and von Erlach.

11924**Professional Practice 2****Component:***Architectural Experience*

An integral component of each of the programs offered is practical work experience which is acquired concurrently with academic study.

Approved work experience is a precondition of the award of each of the degrees. All students must therefore undertake the component 'Architectural Experience' and must gain a specified amount of architectural experience prior to graduation.

Students must amass specified amounts of architectural experience by particular stages of the course in order to proceed through the course academically.

Such architectural experience is monitored through a non-academic credit-point system. Full details of the amount of experience to be gained and at what level will be issued to students by the Director of Professional Practice.

Students are required to record their practical experience in the log book of the Architects Accreditation Council of Australia [AACA] (which may be obtained from the RAIA) and all students must submit these log books and work experience sheets for inspection each year. Students who do not submit log books by the dates set down by the staff member responsible for Professional Practice will have a failure recorded in the subject.

Students who have gained the requisite number of non-academic architectural experience points, and have had this verified by the Director of Professional Practice, are no longer required to submit log books and are deemed to have satisfied the criteria for the component Architectural Practice.

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.

11925**Elective Studies 2**

6cp

Components: 1*Sustainable Architecture 1, 3cp*

This component covers the following topics: energy usage and its implications for climate change and the acidification of the atmosphere; the contribution of the greenhouse effect and the built environment to these phenomena; infrastructure planning, and climate responsive architecture; and resource allocation.

Architectural Computing 2E, 3cp

This component covers advanced use of computers for architectural purposes.

Architectural Photography 1, 3cp

This component is an introduction to architectural photography, including techniques, form and meaning.

11931**Architectural Design 3**

8cp; prerequisites: 11921 Architectural Design 2; 11922 Technology 2

Component:

Projects 3, Weighting: 1.0

This component explores the relationship of buildings to their setting, in both rural and urban contexts, together with the integration of social, environmental and technical services to support their use.

11932**Technology 3**

5cp; prerequisites: 11921 Architectural Design 2; 11922 Technology 2

Component:

Construction 3, Weighting: 1.0

This component involves an investigation of more complex and larger scale building systems and their construction. It includes detailed cost planning and budgetary control; evaluation of environmental impact studies and their impact on construction; and analysis of the integration of construction and services in high-rise and multiuse structures.

11933**Theory Studies 3**

9cp

Components:

Environmental Science 3, Weighting: 0.4

This component is an introduction to architectural acoustics and lighting which looks at the response of the human ear and eye. The acoustic program covers the following topics: the characteristics of sound and its propagation; design for acoustic environments; noise control; barriers; isolation; masking and general room acoustics. The lighting program studies two aspects under the

headings of daylighting and electrical lighting, including the following topics: glare; colour perception classification systems; daylighting factors; design skies; and lamp technologies. Methods of calculating illuminance will also be covered.

Urban Studies 1, Weighting: 0.3

These studies focus on issues which deal with the making of the built environment from the level of the individual building and its setting to the structure and restructuring of cities. In Urban Studies 1, the field of study and the interrelationship of subject areas are outlined. An introductory overview is given on the historical development of cities, which ranges from the planned and utopian city, to the growth of the incremental city. Basic issues relating to landscape are examined – terrain evaluation; reading the landscape and discovering its underlying structure; vegetation; soil morphology; geology; hydrology. Students will gain an understanding of the implications of intervention in natural systems by built objects and the management and control of change.

History of Architecture 3, Weighting: 0.3

Topics offered in 1997 are as follows:

Architecture in Sydney 1885–1930, Weighting: 0.15

While defining the ideological framework within which architecture evolved in Sydney and its environs during the period in question, this topic will analyse representative buildings designed by J Horbury Hunt, Harry C Kent, G M Pitt, E Jeffresson Jackson, John Sulman, George Sydney Jones, B J Waterhouse, Hardy Wilson, Leslie Wilkinson and Neville Hampson. Research method as applied to the survey and documentation of historical buildings will also be discussed.

Architecture in Europe and America, 1885–1914, Weighting: 0.15

This topic will orientate itself around the work of the following architects: M H Baillie Scott, C F A Voysey, Edwin Lutyens, Charles Rennie Mackintosh, Victor Horta, Hector Guimard, Otto Wagner, Joseph Olbrich, and Frank Lloyd Wright. At the same time it will discuss the ideas and theories espoused by the Arts and Crafts movement in England, by the Art Nouveau in Belgium and France, and by the Secessionist in Austria.

11934**Professional Practice 3**

4cp

Components:*Architectural Practice 2, Weighting: 1.0*

This component covers the Architects Act, Regulations and Professional Bodies, and Law and Management. It provides students with the following:

1. a background to statute and common law and the operative legal systems, together with the laws of torts, contracts and agency, in their implications to architectural practice;
2. an introduction to management theory and the processes of forecasting, organising, planning, motivating, controlling, coordinating and communicating.

Architectural Experience

See 11924 Component Architectural Experience.

11935**Elective Studies 3**

6cp

Components:*Sustainable Architecture 2, 3cp*

This component critically reviews the part the current economic paradigm plays in management decisions regarding human settlement and the built environment, and sets out to determine whether this model represents a true costing of the resources used in humankind's daily activities.

History of Architecture 3E, 3cp

Topics available in 1997 are as follows:

Islamic Architecture, 690–1700

What is Islamic architecture? This is the question which this subject seeks to answer as it visits buildings designed for and by Muslims in Jerusalem, Damascus, Baghdad, Samarra, Cairo, Cordoba, Granada, Istanbul and Isfahan.

Details of an additional history topic to be offered will be available at the time of enrolment.

11936**Honours Qualifying**

6cp; prerequisites: successful completion of all subjects in Years 1 and 2

Components:*Research Methods, Weighting: 0.2*

This component includes the following topics: an introduction to research methods; methodologies in different disciplines; statistics; library facilities; international databases; and an introduction to thesis preparation.

Preliminary Thesis Submission, Weighting: 0.8

This component involves the preparation, under the supervision of an approved staff member and on a topic agreed to by the Program Director, the supervisor, and student, of a substantial essay outlining and developing one aspect of the proposed thesis topic. This essay should demonstrate the following: research and scholarship skills applied to that particular topic; skills in data gathering and analysis; and the development and presentation of written skills suitable to the preparation of a thesis at Honours level.

11941**Architectural Design 4**

10cp; prerequisites: 11931 Architectural Design 3; 11932 Technology 3

Component:*Projects 4, Weighting: 1.0*

Problems related to the re-use and re-design of obsolete buildings are studied in this component, with account taken of historical and cultural factors, architectural significance, as well as constraints on built form and land use imposed by statute and local regulation.

11942**Technology 4**

12cp; prerequisites: 11931 Architectural Design 3; 11932 Technology 3

Components:*Construction 4, Weighting: 0.4*

This component involves the analysis of the integration of construction and services in high-rise and large-span buildings. It covers advanced constructional systems, including studies of precast and prestressed concrete design; timber technology; steel and cable structures; study of building and planning

codes and relevant statutory instruments; detailed appraisal of the Burra Charter as it impacts on the rehabilitation of protected buildings; and technical adaptation of existing buildings to new use.

Structure 3, Weighting: 0.3

This component involves students in case studies on the following: building failures; typologies and shape finding; high-rise and long-span buildings; membranes, nets and space frames; wind and earthquake effects. It also covers retrofit in the upgrading of old and damaged buildings, and communication between CAD and computerised analysis.

Applied Services, Weighting: 0.3

This component investigates the management of the various information and control systems that contribute to the built environment's efficient utilisation of resources and energy. It also covers all mechanical services, air distribution services, and hydraulic services, including professional liaison with appropriate consultants.

11943

Theory Studies 4

6cp

Components:

Environmental Science 4, Weighting: 0.6

This component concerns itself with the direct relationship between the built object and its interaction with the environment in which it is placed. It will primarily concern itself with issues of biogeography and cover all major environmental cycles e.g. nitrogen, carbon, oxygen and hydrological cycles. This component will also cover the topics of greenhouse gases, ozone depletion and the ramifications of other anthropogenic inputs into the atmosphere and its likely effect on plant and animal life.

Urban Studies 2, Weighting: 0.4

This component includes seminal case studies of city development with a particular focus on the scale and growth of the 19th-century city. Studies include sociopolitical, economic, physical and ideological critiques of the city.

11944

Professional Practice 4

4cp

Components:

Architectural Practice 3, Weighting: 1.0

This component covers the following topics:

1. Application of cost planning and elemental analysis, their use in design and documentation stages and the development of the final cost analysis in office management.
2. Quality assurance and control, occupational health and safety aspects of architectural practice, including use of relevant technology.

Architectural Experience

See 11924 Component Architectural Experience.

11945

Honours Elective Thesis

24cp; prerequisites: successful completion of all subjects in Years 1, 2 and 3, including Honours Qualifying, at credit level

This subject involves the preparation of a thesis (c. 20,000 words) under the supervision of an approved staff member and on a topic approved by the Program Director, the supervisor and the student. Topic choice will be conditional on adequate supervision in that area being available within the Architecture program, or elsewhere subject to the approval of the Architecture Program Director.

11946

Design Honours

6cp

This is an additional coursework subject demonstrating design and technology skills at an advanced level.

Bachelor of Architecture (revised program)

11951

Architectural Design and Technology I

17cp; prerequisites: BA in Architecture or equivalent

Within the fifth and sixth years of the course the importance given to architectural design and to the integration of design with technology remains paramount, with the two previous subject strands amalgamated into a single subject. Project-based exercises are

developed to a greater level of complexity than in the previous years. Again, in all stages of the design program there is a determination to demonstrate the relevance of linking theoretical studies and applied knowledge in critical assessments.

Components:

Projects 5, Weighting: 0.7

Studies in this component concentrate on two diverse areas of work. One focuses on the micro level of the individual building where a major public project, involving large-span technology and complex servicing, is selected to be designed in detail. The other involves a study of part of an urban area of a town or city, where the physical, economic and social infrastructure, as well as the built form of the place, has to be redesigned or modified to accommodate change.

Environmental Science 5, Weighting: 0.3

This component involves the specialist application of all prior learning in respect of environmental science, integrated with the Design and Technology component Projects 5.

11953

Theory Studies 5

10cp; prerequisites: BA in Architecture or equivalent

Components:

Theory and Architecture 4, Weighting: 0.5

In this component students must choose from a range of alternative seminars offered, as per the following examples:

1. 'Theories and issues in contemporary culture; (Re)thinking architecture'; an investigation, via an extensive reading program and seminar discussions of issues in contemporary cultural and philosophical theory and their implications for thinking about architecture;
2. 'Long life, low energy, loose fit'; an exploration of current theory and practice in respect to energy and environment and longevity issues in architecture. Introduction to appropriate research methodologies.

Urban Studies 3, Weighting: 0.5

This component examines the phenomenon of the suburb and the role of 19th century philanthropists and social reformers in its development. The dynamics of social change, especially with reference to changing patterns of urbanism are also covered.

11954

Professional Practice 5

5cp

Components:

Architectural Practice 4, Weighting: 1.0

This component addresses marketing theory and practice as it relates to architectural practice. It focuses on the financial management of architectural practices and architectural projects including building contract cost control, with relevant operations research.

Architectural Experience

See 11924 Component Architectural Experience.

11961

Architectural Design and Technology 2

17cp; prerequisite: 11951 Architectural Design and Technology 1

Components:

Projects 6, Weighting: 0.7

This component requires the development and presentation of designs embodying all aspects of the design process which, in their synthesis, take account of socioeconomic, cultural and physical determinants.

Environmental Science 6, Weighting: 0.3

This component involves the specialist application of all prior learning in respect of environmental science, integrated with the Design and Technology 2 component Projects 6.

11963

Theory Studies 6

10cp

Components:

Theory and Architecture 5, Weighting: 0.5

In this component students must choose from a range of alternative seminar programs offered. In 1997 the following will be available:

1. (Re)thinking Architecture: a more thorough examination, involving an extensive reading program and seminar

discussions, of the implications of contemporary theory on the perception of architecture through a detailed study of particular theorists or theoretical positions. Specific focus will vary and will be determined after discussion with participating students.

2. Research methods in the evaluation of the functional efficiency of buildings and post-occupancy evaluation (user satisfaction) with detailed case studies of buildings in use.

Urban Studies 4, Weighting: 0.5

This component examines the following topics: regional and urban planning issues in their social context and governmental framework; planning procedures and current ideologies in planning; and infrastructural decision making in the context of city restructuring.

11964

Professional Practice 6

5cp

Components:

Architectural Practice 5, Weighting: 1.0

This component involves the study of building contracts. It covers the following topics: seminars on the legal base of the provisions of building contracts; comparisons between forms of contracts in current usage and their administration with case studies of practice situations; and role playing, dispute resolution and negotiation skills.

Architectural Experience

See 11924 Component Architectural Experience.

Master of Architecture

11956

Master's Research Elective

32cp; normally 8hpw over two years; prerequisites: BA (Honours) in Architecture or equivalent

The Master's Research Elective is offered in Years 5 and 6 of the course. Candidates for the degree of Master of Architecture must complete this program in addition to **all the subjects required for the award of the Bachelor of Architecture degree.**

The Master's Research Elective subject is valued at 16 credit points per year over two years. The subject is divided into two components:

1. a theory component (Master's Research Elective – Theory) involving the preparation of a written dissertation;
2. an applied component (Master's Research Elective – Application 1 and 2) involving the demonstration by projects of an advanced level of architectural and urban design and technology. This component involves two distinct programs of work, as outlined below.

Students choosing to undertake the Master's Research Elective component after completion of all subjects required for the Bachelor of Architecture degree, must do so over a single year and thus must take both the above Applied programs simultaneously.

Components:

Master's Research Elective – Application 1, Weighting: 0.2; 3hpw; Year 5; Semesters 1 and 2

This component involves studies in restructuring the city and the remodelling of its infrastructure, both physical and non-physical. It includes case studies at the micro level of the individual building to demonstrate principles of this procedure in practice with studio-based projects to confirm its application.

Master's Research Elective – Application 2 Weighting: 0.2; 3hpw; Year 6; Semesters 1 and 2

In this component students undertake design projects to demonstrate an ability to synthesise all aspects of the design process in creating or re-adapting major buildings, and locate them or reconnect them into new or existing physical settings.

Master's Research Elective – Theory Weighting: 0.6; 5hpw; Years 5 and 6; Semesters 1 and 2

This component involves the preparation of a written dissertation (c. 30,000 words) under the supervision of an approved staff member and on a topic agreed to by the Director of Dissertations and the candidate.

Postgraduate course

by coursework

Master of the Built Environment

Course code: AA53

This three-year part-time postgraduate course, taught by coursework deals with the design and management issues involved in the regeneration of buildings and their settings at all levels of planning in the context of restructuring the city and suburbs. 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 in the restructuring of the city. It is intended that graduates of the course will be competent in the following areas:

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

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. Students with postgraduate experience in their own field of study will be given preference. Admission of mature-age students or other special category students will be considered on their merits, but they must be equivalent in competence to those admitted with degrees.

Requirements

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

The subjects are grouped into the following 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

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

SUBJECT DESCRIPTIONS

The subject descriptions shown below are offered to students enrolled in the Master of the Built Environment. They 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. 4hpw). 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.

12564

Sociology (MBEnv)

2cp; 1hpw

This subject covers the following topics: 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.

12570

Urban Regeneration Process 1

16cp; 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.

12575

Urban Regeneration Process 2

7cp; 5hpw

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

12579

Urban Regeneration Process 3

7cp; 5hpw

This subject includes 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.

12582

Design Research

2cp; 1hpw

This subject includes a series of lectures and seminars dealing with the following: the methodology of research programs; the principles of thinking, reasoning and argument; and the critical analysis of contemporary issues.

12583

Design Project

12cp; 8hpw

In this subject students undertake a project which is either drawn or written, or a combination of the two, and covers an aspect of the built environment, supervised and approved by a member of staff.

12584

Urban Architecture

6cp; 2hpw

A general introduction to the subject is followed by a study of typologies and an analysis of historical precedents, 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. Students study the theories of urbanism which have influenced the making and transformation of existing cities this century, and their impact since 1945.

12585

Law (MBEnv)

5cp; 2hpw

This is 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. Topics covered include building control and a regulatory approach to conservation and regeneration projects, and the operation of the Land and Environment Court.

I2586**Building Technology (MBEnv)***5cp; 2hpw*

This subject is 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*

This subject is an introduction to aspects of macro and microeconomics relevant to property development and property management. It covers the following topics: 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.

I2588**Design Management I***6cp; 2hpw*

This subject covers the management of the project process. It includes the 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, and include an outline of environmental planning legislation, regional proposal strategies, principles of environmental law, integration of future building control requirements, and case studies.

I2589**Design Management 2***5cp; 2hpw*

This subject covers project planning, design management, value management, quality assurance, building audits and post-occupancy evaluation studies as design aids. Students learn about physical and economic feasibility studies, and the cost-benefit analysis of the regeneration and refurbishment of projects.

I2590**Design Management 3***3cp; 1hpw*

This subject covers the following topics: 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 Land Economics

Bachelor of Building in Construction Economics

Regulations

These regulations shall be read in conjunction with the University's Rules and By-law, as contained in the *UTS Calendar*.

Progression

- On the recommendation of the Examination Review Committee, the Faculty Board may, in exceptional circumstances, exempt a student from the regulations relating to progression.
- The year in these regulations is defined as the program for a year shown in the current edition of the Faculty Handbook.
- A student may not enrol in subjects spanning more than two consecutive years of the course.
- 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.
- 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.
- 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.

- 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 will 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 Examination Review Committee may modify the assessment of any examiner, subject to the clauses below.

3. 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 weighted average mark for the assessment period is 55 per cent or greater.
 - (c) Only one failure is recorded for that assessment period.
4. 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.
5. 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.
6. The Dean or Associate Dean may amend the decisions of the Examination Review Committee in the case of obvious clerical or arithmetic errors.
7. Except as to (6), no alterations may be made to the subject assessments of the Examination Review Committee other than by the use of an official review procedure.
8. The Associate Dean may amend the progression of a student as determined by the Examination Review Committee in the light of subject reassessments.
9. All alterations made under (6) 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 or 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 or 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 or 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 the relevant University Rule 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, and 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.

Bachelor of Building in Construction Management

Course code: AB03

Aims

The Building graduate is concerned with management of the construction process. Extensive technological skills go hand in hand with the capacity to manage people, materials, equipment and plant in order to carry out this task as effectively as possible.

In 1996 the Bachelor of Building in Construction Management course underwent a comprehensive review, resulting in a new course structure, details of which were not available at the time of printing. Those interested are therefore advised to contact the Faculty Office for information on the revised course. Listed below is information pertaining to the old Bachelor of Building in Construction Management which may be taken as a guide only.

Professional membership

Upon graduation, students may be eligible to apply for membership of a number of relevant professional bodies. Whilst enrolled at the University, students may also 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.

Australian Institute of Building (AIB)

The Australian Institute of Building (AIB) is the main professional association for building students and is recognised by Royal Charter.

The Bachelor of Building in Construction Management course satisfies the academic requirements for corporate membership of the Australian Institute of Building. There are additional professional experience requirements necessary for chartered membership concerning which students should refer to AIB for details.

Course structure

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 Land Economics

Course code: AB06

Aims

The objectives of the Land Economics course are as follows:

- to produce a broadly educated graduate prepared for a career in the property industry;
- 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;

- 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.

Professional membership

Upon graduation, students may be eligible to apply for membership of a number of relevant professional bodies. Whilst enrolled at the University, students may also 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 the following:

- a degree in a recognised course of study i.e. Bachelor of Land Economics at the University of Technology, Sydney;
- 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.

Royal Institution of Chartered Surveyors (RICS)

The Bachelor of Land Economics degree is accredited as meeting all the academic requirements for full corporate membership of RICS. Upon completion of the degree students may apply to the RICS to undertake their practical experience requirements which comprise a further two years of supervised and approved experience in industry. The RICS conduct an Assessment of Professional Competence at the end of this period.

Industrial experience

In addition to attending classes, students are required to gain practical experience in appropriate 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. Part-time students are required to enrol each year, except Year 1, in the professional/industrial experience subject and to supply details of the experience gained. Further details can be obtained from the Director of Program.

Course structure

Four-year full-time program

Year 1

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

Year 2

16152	Land Studies 2	4cp
16153	Building Technology	6cp
16352	Valuation Methodology	8cp
16354	Rural Valuation	6cp

16553	Finance and Investment Analysis	8cp
16651	Urban Planning	4cp
16853	Planning and Environmental Law	4cp
16854	Real Estate Law	4cp
16652	Environmental Design	4cp

Year 3

16155	Facility Evaluation	4cp
16355	Specialised Valuation Topics	8cp
16454	Investment and Portfolio Management	4cp
16453	Development Management	4cp
16554	Urban Economics	8cp
16997	Land Economics Experience (F/T)	—
16456	Real Estate 2	8cp

Year 4

16353	Advanced Valuation Methods	8cp
16751	International Property Investment	8cp
16356	Statutory Valuation and Litigation	4cp
16452	Land Studies 3	6cp
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 1	6cp
16150	Land Studies 1	8cp

Year 2

16352	Valuation Methodology	8cp
16551	Economics	8cp
16552	Financial and Trust Accounting	6cp
16851	Introduction to Law	6cp
16998	Land Economics Experience (P/T)	—

Year 3

16153	Building Technology	6cp
16553	Finance and Investment Analysis	8cp
16354	Rural Valuation	6cp
16651	Urban Planning	4cp
16998	Land Economics Experience (P/T)	—
16152	Land Studies 2	4cp

Year 4

16456	Real Estate 2	8cp
16652	Environmental Design	4cp
16355	Specialised Valuation Topics	8cp
16853	Planning and Environmental Law	6cp
16998	Land Economics Experience (P/T)	—
16854	Real Estate Law	4cp

Year 5

16155	Facility Evaluation	4cp
16454	Investment and Portfolio Management	4cp
16554	Urban Economics	8cp
16998	Land Economics Experience (P/T)	—
16353	Advanced Valuation Methods	8cp
16453	Development Management	4cp

Year 6

16751	International Property Investment	8cp
16356	Statutory Valuation and Litigation	4cp
16961	Project	10cp
16998	Land Economics Experience (P/T)	—
16452	Land Studies 3	6cp

Bachelor of Building in Construction Economics

Course code: AB04

Aims

The Bachelor of Building in Construction Economics degree 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.

Attendance

For part-time students attendance at University is on a two half-day release basis for 13 weeks each semester, but full-time students may be expected to attend at any time during the week. The course has been designed for each part-time year to have a maximum of four academic subjects. The contact hours allocated to each subject are nominal and will often be a combination of lectures, tutorials, workshops and self-directed teaching methods.

The course is designed so that students may transfer between part-time and full-time attendance patterns or between Construction Management and Construction Economics courses after Year 2 full time or Year 3 part time without incurring an extension to the duration of their course.

Industrial experience

Undergraduate studies in Construction Economics are designed around the concept of cooperative education, and thus require concurrent practical experience as part of the program.

Part-time students are required to obtain the equivalent of 144 weeks (3 years) approved industrial experience comprising nominally 4 days per week full-time employment in the construction industry. Employment outside the construction industry may also be given some consideration. Industrial experience attained prior to commencement of the course will also be accepted subject to approval. Students must have at least 48 weeks (1 year) approved experience prior to entering the final year of the course. Graduation will be delayed until the University is satisfied that its industrial experience requirements have been met.

Full-time students are required to obtain the equivalent of 48 weeks (240 days) approved industrial experience. Successful completion of the compulsory practical studies components of Construction I-IV can contribute up to 24 weeks of the total requirement, the remaining experience necessarily coming from industry. Students must have at least 16 weeks (80 days) approved industry placement prior to entering the final year of the course and at least 24 weeks (120 days) approved industry placement prior to graduation. Graduation will be delayed until the University is satisfied that its industrial experience requirements have been met. The following table summarises the industrial experience requirements for full-time students.

	Year 1	Year 2	Year 3	Year 4	Total
Practical studies	6wks	6wks	6wks	6wks	24wks
Industry placement	6wks	6wks	6wks	6wks	24wks
Total	12wks	12wks	12wks	12wks	48wks

Advanced standing

Students with previous academic or industrial experience may be given recognition for prior learning (RPL) in the course. No student may be given advanced standing in excess of three-quarters of the course without the approval of Academic Board.

Students with advanced standing are given the opportunity to tailor their program of study in line with subjects completed previously at other institutions. This flexibility encourages students to design their own individual learning experiences and enables efficient articulation without repetition. Identified areas of weakness can also be targeted and strengthened. Students will not be exempted from elective subjects due to previous study or qualifications.

Students given advanced standing are eligible to enter the course by way of the Semester Bridge, which runs each year over the summer term (December to February), and which comprises the subjects in the Semester Bridge on the following page.

There is a range of articulation pathways in the course, and students holding previous qualifications should contact the Faculty Office for further information.

Professional membership

Successful completion of the undergraduate course satisfies the educational requirements for admission to the following professional organisations.

Royal Institution of Chartered Surveyors (RICS)

The Royal Institution of Chartered Surveyors (RICS) is a highly valued and respected professional association in the international community. The Bachelor of Building in Construction Economics degree is accredited as meeting all the academic requirements for full corporate membership of the RICS. Upon completion of the degree students may apply to the RICS to undertake their practical experience requirements which comprise a further two years of supervised and approved experience in industry. The RICS conduct an Assessment of Professional Competence at the end of this period.

Australian Institute of Quantity Surveyors (AIQS)

The Australian Institute of Quantity Surveyors (AIQS) is the main professional body for

quantity surveying students in Australia. Successful completion of the Bachelor of Building in Construction Economics degree is accredited for admission to full corporate membership, 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. Full-time students must obtain the two years' experience after completion of their course.

Australian Institute of Building (AIB)

The Australian Institute of Building (AIB) is the main professional association for building students and is recognised by Royal Charter. The Bachelor of Building in Construction Economics degree is accredited as meeting all the academic requirements for full corporate membership of the AIB. Before becoming a Chartered Building Professional additional practical experience requirements and interview are necessary. Students should refer to the AIB for full details.

Other professional bodies

The Bachelor of Building in Construction Economics degree is also accredited by the New Zealand Institute of Quantity Surveyors (NZIQS), the Hong Kong Institute of Surveyors (HKIS) and the Institute of Surveyors, Malaysia (ISM). Corporate entry to the Singapore Institute of Surveyors and Valuers (SISV) is also possible through a RICS reciprocity agreement.

Course structure

Four-year full-time program

Year 1

16001	Preparatory Studies	8cp
16115	Construction 1	8cp
16621	Design Evaluation	8cp
16721	Material Science	8cp
16501	Quantity Surveying 1	8cp
16622	Environmental Planning	8cp

Year 2

16161	Statistics	8cp
16116	Construction 2	8cp
16502	Quantity Surveying 2	8cp
16801	Legal Studies 1	8cp
16533	Estimating	8cp
16310	Engineering Services	8cp

Year 3

16534	Project Planning and Risk	8cp
16117	Construction 3	8cp
16503	Quantity Surveying 3	8cp
16802	Legal Studies 2	8cp
16521	Cost Planning and Modelling	8cp
16522	Economic Development	8cp

Year 4

16411	Contract Administration	8cp
16118	Construction 4	8cp
16523	Advanced Cost Engineering	8cp
16513	Economic Analysis	8cp
16506	Quantity Surveying Practice*	8cp
xxxxx	Unspecified Electives*	8cp

***Final Year Alternative**

16224	QS Project	12cp
xxxxx	Unspecified Elective	4cp

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

16001	Preparatory Studies	8cp
16115	Construction 1	8cp
16621	Design Evaluation	8cp
16721	Material Science	8cp

Year 2

16161	Statistics	8cp
16116	Construction 2	8cp
16501	Quantity Surveying 1	8cp
16622	Environmental Planning	8cp

Year 3

16502	Quantity Surveying 2	8cp
16801	Legal Studies 1	8cp
16533	Estimating	8cp
16310	Engineering Services	8cp

Year 4

16534	Project Planning and Risk	8cp
16117	Construction 3	8cp
16503	Quantity Surveying 3	8cp
16802	Legal Studies 2	8cp

Year 5

16411	Contract Administration	8cp
16118	Construction 4	8cp
16521	Cost Planning and Modelling	8cp
16522	Economic Development	8cp

Year 6

16523	Advanced Cost Engineering	8cp
16513	Economic Analysis	8cp
16506	Quantity Surveying Practice*	8cp
xxxxx	Unspecified Electives*	8cp

*** Final Year Alternative**

16224	QS Project	12cp
xxxxx	Unspecified Elective	4cp

Semester Bridge**Summer Term**

16225	QS Project (Summer)	12cp
16300	Industry Studies	12cp

Undergraduate **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. 4hpw). 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.

16001

Preparatory studies

8cp; 3hpw

This subject helps students to develop professional communication, management and computing skills. It covers basic research methodologies including library skills, information gathering, dissemination and analysis, written communication skills, incorporating formal correspondence, essay/report writing and English expression. It also focuses on verbal communication and client presentation skills, marketing principles, strategies and techniques or survey methods.

16150

Land Studies 1

8cp; 3hpw

This subject looks at the history, political economy and sociology of real property, investment, and land administration. It covers ethical fundamentals for the analysis of land investment and professional practice, and gives students an introduction to logical analysis and presentation skills necessary for academic development.

16152

Land Studies 2

4cp; 2hpw; prerequisites: 16163 Appraisal and Statistics; 16150 Land Studies 1

This subject looks at the physical aspects of land definition, including land information, title, subdivision and measurement technology. It gives students an overview of the various types of land and engineering surveys and plans. It also covers the following topics: the applications of land surveying in land economics; finance and investment issues and techniques associated with real estate assets; and the use of debt finance for real estate investment.

16452

Land Studies 3

6cp; 3hpw

This subject examines 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; definition of responsibilities of consultant to client, third party and community; conditions of engagement; indemnity insurance; the marketing process and its application to real estate; and the auction method of selling and the role of the auctioneer.

16115

Construction 1

8cp; 2hpw

This subject examines the following topics: construction technology for residential buildings; terminology and detail design of typical construction solutions; footings, floor, wall and roof framing, cladding, windows and doors, finishes and joinery; weatherproofing; building regulations and standards, including fire safety; model building; and concurrent practical studies and fieldwork.

16116

Construction 2

8cp; 2hpw; prerequisite: 16115 Construction 1

This subject examines the following topics: construction technology for low-rise industrial

and commercial buildings; terminology and detail design of typical construction solutions; steel framed and concrete framed structures; underpinning, retaining walls and basement waterproofing; load bearing wall systems; tilt-up and lift-up construction; precast floor wall panels; roofing systems; site establishment, hoardings and temporary facilities; building regulations and standards, including fire safety; and concurrent practical studies and fieldwork.

16117

Construction 3

8cp; 2hpw; prerequisite: 16116 Construction 2

This subject covers the following topics: construction technology for high-rise commercial buildings; terminology and detail design of typical construction solutions; prestressed and post-tensioned concrete; curtain walling; built-up roofing systems; slip form and jump form construction; partitioning and suspended ceiling systems; scaffolding; prefabrication; innovation in construction; automation and robotics; building regulations and standards, including fire safety; and concurrent practical studies and field work.

16118

Construction 4

8cp; 2hpw; prerequisite: 16117 Construction 3

This subject covers the following topics: the refurbishment and rehabilitation of buildings; adaptive reuse; demolition; maintenance and defect rectification; workmanship problems, common building defects and their avoidance; waste minimisation and recycling; building regulations and standards, including fire safety; introduction to civil engineering construction; and concurrent practical studies and field work.

16131

Professional Practice

4cp; 1hpw

This subject covers the following topics: 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; and indemnity insurance.

16163

Appraisal and Statistics

8cp; 2hpw

The use of mathematical, statistical and computing techniques in financial applications and computer applications for Land Economics are studied in this subject.

16153

Building Technology

6cp; 3hpw

In this subject students learn about the technology of components and elements of domestic, commercial and industrial buildings, both low and high rise. This covers the following topics: structures; facades; partitions; services; relevance of ordinances; and aspects of refurbishing.

16155

Facility Evaluation

6cp; 2hpw; prerequisite: 16453 Development Management

The objective of this subject is to assess the effects of aspects of the design of buildings on user comfort, energy usage, aesthetics and safety. It covers orientation, use of materials, layout, services, ageing of buildings, and relationships of buildings to structures.

16161

Statistics

8cp; 3hpw

This subject involves the study and use of statistical tools in construction economics. It covers data collection and presentation, descriptive statistics, graphical techniques, probability and distribution, index numbers, statistical inference, time series, correlation and regression analysis, and computer-aided instruction and software applications.

16197

Building Experience (F/T)

16198

Building Experience (P/T)

16201

Drawing and Surveying

4cp; 2hpw

This subject introduces students to the following: 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; the choice of setting out techniques; the use of tape, level, theodolite and optical plummets; the NSW land title systems; and the powers of public authorities.

16211

Computations

6cp; 4hpw

This subject involves students in the exploration and application of functions and graphs, differentiation and integration. It is an introduction to the following: matrix algebra; chance and probability; permutations and combinations; presentation of data; average and means; central tendency; scatter; standard deviation; variance; and distribution-binomial, Poisson, normal, confidence. The subject 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

This subject involves the detailed investigation of a topic by literature search, laboratory experiment or survey and the production of a large report to a professional standard.

16224

QS Project

8cp; 5hpw; alternative to 16506 Quantity Surveying Practice (8cp) and Unspecified Elective (4cp)

This subject requires students to prepare and submit a major project, involving the detailed study of an individual topic related to the field of construction economics.

16225

QS Project (Summer)

12cp; 16hpw (one semester); part of the Semester Bridge (summer term)

This subject requires students to prepare and submit a major project, involving the detailed

study of an individual topic related to the field of construction economics. The subject has a distance learning component which prepares students prior to formal commencement.

16300

Industry Studies

12cp; 16hpw (one semester); part of the Semester Bridge (summer term)

In this subject students undertake a critical and quantitative examination of parts of the Australian construction industry, preferably comparing them with international practice and performance. Students also carry out documented field work necessary for the collection and interpretation of the research data. The subject has a distance learning component which prepares students prior to formal commencement.

16301

Services I

6cp; 3hpw

This subject is an introduction to hydraulic, electrical, airconditioning, vertical transportation, fire protection services and systems. It covers terminology, design and construction requirements, and intelligent buildings.

16310

Engineering Services

8cp; 2hpw

This subject is an introduction to hydraulic, electrical, airconditioning, vertical transportation and fire protection services and systems. It includes the study of the following: computer networks, security systems and monitoring technologies; terminology, design, coordination and construction requirements; the cost implications of engineering services; and intelligent buildings.

16351

Introduction to Valuation

6cp; 2hpw

This subject is an introduction to the valuation profession, its role and function within the real property industry. Basic methodology and technical tools of the valuer will also be studied.

16352**Valuation Methodology**

8cp; 2hpw; prerequisites: 16351 Introduction to Valuation; 16163 Appraisal and Statistics

This subject is an in-depth study of the role, functions and obligations of the valuation profession. Areas studied include the following: 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 are included as part of the requirements for this subject. Part-time students may be exempted from this practical studies component.

16353**Advanced Valuation Methods**

8cp; 2hpw; prerequisite: 16352 Valuation Methodology

This 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 are included as part of the requirement for this subject.

16354**Rural Valuation**

6cp; 2hpw; prerequisites: 16551 Economics; 16352 Valuation Methodology

This subject is an in-depth study of the purpose and methodology of valuing non-urban and rural properties, and an introduction to the importance of agriculture to the Australian economy. Practical studies and field work included as part of the requirements for this subject.

16355**Specialised Valuation Topics**

8cp; 2hpw; prerequisite: 16352 Valuation Methodology; corequisite: 16553 Finance and Investment Analysis

This subject is an in-depth study of the more specialised areas in the valuation profession. Capitalisation, summation and replacement cost approaches are developed, and practical studies and field work are included as part of the requirements for this subject.

16356**Statutory Valuation and Litigation**

4cp; 2hpw

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

16402**Management 2**

6cp; 2hpw; prerequisites: 51388 Communications; 16115 Construction I

This subject covers the following topics: organisation theory; the individual in the workplace; leadership; needs hierarchy; motivation; team building; group dynamics; communication; problem solving; decision making; organisational variables; and buildability and planning related to the management of the construction process.

16403**Management 3**

4cp; 2hpw

This subject covers the application of statistical methods of quality management, statistics, operations research techniques, and process capability.

16404**Management 4**

6cp; 2hpw

This subject covers the following topics: 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; and an examination of the administrative requirements for efficient contracts using case studies.

16405**Management 5**

4cp; 2hpw

This subject covers the following topics: strategic planning and marketing; the interface between the building and building products industries; and quality management.

16406**Management 6***4cp; 2hpw*

This subject covers the following topics: industrial relations and site safety; roles of licensing boards; and prescribed payments system.

16411**Contract Administration***8cp; 3hpw; prerequisite: 16801 Legal Studies 1*

The principles and practice involved in the administration of construction contracts, including preparation of variations, progress claims, activity reports, cash flows and package-deal documentation are covered in this subject. Students look at the following: rise and fall provisions; general conditions of contract; specification writing; cost control of projects during construction; quality assurance; conflict management and dispute resolution; and an introduction to project management.

16453**Development Management***4cp; 2hpw; prerequisites: 16153 Building Technology; 16163 Appraisal and Statistics*

This subject focuses on aspects of the management of projects under development or undergoing major maintenance. Topics include the following: client needs determination; procurement methods; design management including cost planning and buildability; approvals management; 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 equipment.

16454**Investment and Portfolio Management***4cp; 1.5hpw; prerequisite: 16553 Finance and Investment Analysis*

This subject is an in-depth study of the methods and techniques of investment and portfolio management. It looks at the asset allocation process and risk and return with an introduction to the techniques of investment and portfolio analysis.

16501**Quantity Surveying 1***8cp; 3hpw*

This subject is an introduction to quantity surveying services and methods and covers the measurement and calculation of simple quantities in accordance with the current Australian Standard Method of Measurement. Students learn the principles of measurement, set-out and notation, and carry out measurement exercises. Professional formation and the role of the professional associations is also discussed.

16502**Quantity Surveying 2***8cp; 3hpw; prerequisite: 16501 Quantity Surveying 1*

This subject looks at the application of information technology and information exchange to the quantity surveyor. It also covers the following topics: future trends and the impact of computers on traditional roles; the investigation and use of specialist software and equipment for the measurement and presentation of quantities; measurement exercises involving superficial areas of construction elements as an introduction to cost planning; computer-aided design; and the automatic production of quantities.

16503**Quantity Surveying 3***8cp; 3hpw; prerequisite: 16502 Quantity Surveying 2*

This subject teaches students about the preparation and uses of a bill of quantities and types of documentation formats in common use. They will acquire competence in preparing trade packages within a bill of quantities in accordance with the current Australian Standard Method of Measurement. The subject also covers the following topics: measurement rules and procedures; the measurement of engineering services, such as hydraulics, electrical, mechanical and fire protection systems; and alternative methods of measurement.

16506**Quantity Surveying Practice***8cp; 3hpw*

This subject is a critical examination of the quantity surveying profession and its future. It covers the following topics: professional

practice, ethics and codes of conduct; professional liability and indemnity; taxation law and depreciation; setting up and running a professional practice; organisational theory and management; industrial relations; international construction and opportunities; and topical issues affecting the profession and the industry.

16511

Economic Management 1

6cp; 3hpw

This subject teaches students the 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; prerequisite: 16511 Economic Management 1

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

16513

Economic Analysis

8cp; 2hpw

This subject covers the following topics: the application of economic analysis to construction and property industries; the measurement of economic performance using industry and project indicators; forecasting techniques and the impact of economic assumptions; the industry restructuring and microeconomic reform agenda in Australia; the role of innovation in the construction process; and the impact of information and communication technologies.

16521

Cost Planning and Modelling

8cp; 3hpw; prerequisite: 16502 Quantity Surveying 2

In this subject students undertake an examination of the principles and practices of construction economics, including budgeting, design optimisation, preliminary estimating, cost planning and elemental cost analysis. They also look at the following: building price indices; international classification standards

and practice; estimating the cost of engineering services; computerised cost modelling techniques; and computer applications.

16522

Economic Development

8cp; 2hpw

An introduction to the structure and performance of both the Australian economy and the international economy, covering aspects of economics and economic theory relevant to the construction and property industries. Students are introduced to a broad range of macro and micro economic concepts, issues and policies relevant to Australia and its global context.

16523

Advanced Cost Engineering

8cp; 3hpw; prerequisite: 16521 Cost Planning and Modelling

This subject teaches students advanced evaluation techniques such as life-cost planning and analysis, cost-benefit analysis, multi-objective decision analysis, value management and post-occupancy evaluation. Students will prepare feasibility studies for development projects, and learn about facilities management, energy auditing, environmental considerations and sustainable development.

16531

Estimating 1

4cp; 3hpw; prerequisite: 16542 Quantities 2

In this subject students develop techniques and skills for the pricing of construction work. They study the following topics: conceptual and bid estimating; calculation of labour, material, plant, subcontract and indirect costs; pricing of bill of quantities items; obtaining and checking subcontract quotations; and tendering procedures.

16532

Estimating 2

6cp; 2hpw; prerequisite: 16531 Estimating 1

A review of the techniques used in the preparation of competitive tenders for construction projects is undertaken in this subject. Tendering objectives and procedures are examined in detail. The subject also looks at the following topics: bidding strategy theory and practice, including statistical applications; risk analysis and risk evaluation theory; and probabilistic estimating techniques.

16533**Estimating**

8cp; 3hpw; prerequisite: 16501 Quantity Surveying I

In this subject students learn about estimating practice and techniques, including the breakdown of construction costs into labour, material, plant, subcontract and indirect cost components, pricing of bill quantities items, obtaining and checking subcontract quotations, pricing preliminaries and overheads, tender preparation and the application of computer software.

16534**Project Planning and Risk**

8cp; 3hpw; prerequisite: 16533 Estimating

This subject covers the following topics: construction planning techniques and time management; materials handling systems and their application; estimating project costs using activities and resources; techniques used in the preparation of competitive tenders for construction projects; tendering strategies, objectives and procedures; financing of construction projects; risk analysis, risk evaluation theory and computer modelling; and bidding theory and practice including statistical applications.

16541**Quantities I**

4cp; 2hpw

This subject is an introduction to quantity surveying services and methods. It covers the measurement and calculation of quantities and the principles of measurement, set-out and notation.

16542**Quantities 2**

4cp; 2hpw; prerequisite: 16541 Quantities I

This subject focuses on the preparation and uses of a bill of quantities and types of documentation formats in common use. Students will acquire competence in preparing trade packages within a bill of quantities in accordance with the current Australian Standard Method of Measurement. They will also learn about measurement rules and procedures and computer measurement systems.

16551**Economics**

8cp; 3hpw

This subject covers two major areas of economic analysis. The first of these is microeconomics, where students learn traditional microeconomic theory but with a property market slant. Each topic covered, such as consumer equilibrium theory, production theory, competition theory, and resource pricing theory, is directly and indirectly related to the property market to ensure student understanding of the relevance, and application of, each concept. The second area is macroeconomics, where students develop analytical tools which provide insight into the nature of major common issues currently of importance to Australia. The interrelationship of macroeconomic variables as well as the influence of microeconomic reform on the economy's overall efficiency is emphasised, with application to the property market stressed in each topic covered.

16552**Financial and Trust Accounting**

6cp; 3hpw

This subject is an introduction to basic accounting. It covers the following topics: the preparation and use of accounting information; the tools used; accounting concepts related to partnerships, corporations and manufacturing enterprise; accounting related to business funds and cash flows; trust accounting; and use of data processing.

16554**Urban Economics**

8cp; 2hpw; prerequisites: 16551 Economics; 16651 Urban Planning

This subject covers economic theories of land use including location theory, urbanisation, demographics of cities, role of levels of government, urban services, privatisation, urban problems, urban renewal and decentralisation.

16601**Contextual Studies I**

4cp; 2hpw

This subject covers: the history of the built environment and the role of the builder from ancient times to the present; the built heritage and the cultural significance of buildings; and Australian building styles.

16602**Contextual Studies 2***4cp; 2hpw*

This subject focuses on the analysis of Sydney's land use structure. It is an introduction to planning methods which gives students an understanding of the application of planning, and addresses conservation and development goals in cities.

16611**Building Design***4cp; 2hpw; prerequisite: 16601 Contextual Studies 1*

This subject is an examination of the following: the parameters that affect building design; the problems that architects face in designing buildings; case studies of design, both professional and other; and design exercises.

16621**Design Evaluation***8cp; 3hpw*

This subject is an examination of the following: the factors that affect building design; the problems that architects face in designing buildings; building orientation and thermal performance; design history and philosophy; principles and terminology used by structural engineers; and structural evaluation of building systems.

16622**Environmental Planning***8cp; 2hpw*

This subject looks at the contextual issues which relate to human's impact on the environment. These include the following: environmental impact statements; economic theories of land use including urbanisation; effects of controls; provision of services; rehabilitation and renewal; welfare provision; transportation; decentralisation; heritage considerations; environmental law and procedures; powers of environmental protection agencies; global warming and ozone depletion; international conservation issues; and policy strategies and initiatives.

16651**Urban Planning***4cp; 2hpw*

This subject looks at the economics of town planning, the policies of urban development, the process of development control, and the analysis of land use patterns.

16652**Environmental Design***4cp; 2hpw*

This subject is an introduction to the built environment and the environmental impact of cities. It looks at the concept of ecologically sustainable development and the use of appropriate design responses to the physical and social environment.

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

This subject looks at the properties and behaviour of building materials, in particular the characteristics of metal, timber and concrete. The subject also covers material testing.

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

This is a detailed course in concrete technology emphasising those aspects of concrete properties which are relevant to the building site. It covers the following topics: the properties and uses of those metals commonly used in building; the properties and uses of mastics and sealants; and the properties of surface coatings.

16711**Building Science***4cp; 1hpw*

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

16721**Material Science***8cp; 2hpw*

This subject looks at the following topics: the properties and behaviour of building materials, in particular the characteristics of metal, timber and concrete; and material

testing. It also covers the theory of architectural science; and heat, light and sound principles and their application to building design and material selection.

16801

Legal Studies 1

8cp; 2hpw

This subject is an introduction to the legal system in Australia including sources of law, the court system, legal personnel and comparisons with international legal systems. It introduces students to a detailed study of contract law and an outline of criminal law, civil law, industrial law, insurance law, property law, the law of business associations and dispute resolution.

16802

Legal Studies 2

8cp; 2hpw; prerequisite: 16801 Legal Studies 1

This subject focuses on the tortious liability imposed by the law upon professionals, some major contractual problems related to the construction industry, an outline of employment law and statutory industrial regulation and legal research and referencing skills. Case studies are used extensively to explain concepts.

16851

Introduction to Law

6cp; 2hpw

This subject is an introduction to the legal system in Australia including sources of law, the court system and legal personnel. It introduces students to a detailed study of contract law and an outline of criminal law, civil laws, industrial law, insurance law, dispute resolution, property law and the law of business associations.

16901

Structures 1

4cp; 2hpw

This subject provides students with the basic structural skills necessary for later use in analysis and design structures.

16902

Structures 2

6cp; 3hpw; prerequisite: 16901 Structures 1

This subject teaches students to assess loads on structures according to SA codes. They also learn how to design and check structural elements in timber, reinforced concrete and steel, make connections between these elements, and look at soils as materials for supporting buildings.

16903

Structures 3

6cp; 2hpw; prerequisite: 16902 Structures 2

This subject helps students to make an approximate analysis and description of indeterminate building frame behaviour. It also looks at prestressed concrete, reinforced concrete two-way slabs, structural brickwork, design of temporary works – formwork, scaffolding, strutted excavations, underpinning, and shoring.

16961

Project

10cp; 4hpw; prerequisites: Years 1 to 3 (of full-time) or 1 to 5 (of part-time) Land Economics course

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

16997

Land Economics Experience (F/T)

16998

Land Economics Experience (P/T)

51388

Communications

2cp; 1hpw

This subject 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, and teaching will be by lecture for communication principles and in small group workshops for writing and oral communication.

16553

Finance and Investment Analysis

8cp; 2hpw; prerequisites: 16552 Financial and Trust Accounting; 16163 Appraisal and Statistics

This subject is an overview of the corporate financial system in Australia. It covers the following topics: concepts and techniques of financial evaluation; risk management; financing of investments; investment analysis and methods of financing; and quantitative methods for research and investment.

16853

Planning and Environmental Law

4cp; 2hpw; prerequisite: 16851 Introduction to Law

This subject looks at the following topics: the principles of the law regulating development; environmental impact and conservation; and regulating bodies and courts.

16854

Real Estate Law

4cp; 2hpw; prerequisite: 16851 Introduction to Law

This subject focuses on the principles and details of real estate law and covers the following topics: the law relating to agents; consumer protection; sale of goods; and trade practices legislation. It also looks at the principles associated with the transfer and acquisition of property and includes the study of the various Real Property titles, the Strata Title Act and the responsibilities of the strata manager.

16361

Real Estate 1

6cp; 2hpw

This subject is an introduction to the real estate industry examining the statutory controls and professional ethics and applying them to agency practice. The role and responsibilities of the real estate agent will be examined including marketing, selling of real estate and residential property management.

16456

Real Estate 2

8cp; 2hpw; prerequisites: 16361 Real Estate 1; 16552 Financial and Trust Accounting

This subject focuses on the management of large complex properties, the study of strata management and the role of the strata manager. Topics covered include development and administration of systems for market research, rent collection, tenancy management, investment taxation and negotiation.

16751

International Property Investment

8cp; 2hpw

The subject analyses the globalisation of real estate markets and examines the factors that determine such foreign investment. Particular focus is on the Australian and the Asia Pacific property markets.

Postgraduate courses

by coursework

The Faculty's coursework postgraduate programs feature flexible and innovative attendance patterns, designed to suit busy practising professionals.

Attendance patterns range from part-time evening classes to 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 tailor study 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.

Regulations

These regulations shall be read in conjunction with the University's Rules and By-law, as indicated in the UTS *Calendar*.

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 Certificate/ 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 the following:

1. failure in any two subjects;
2. failure in a subject twice.

Graduate Certificate in Urban Estate Management

Course code: AB64

Graduate Diploma in Urban Estate Management

Course code: AB52

Aims

Property is an exciting and challenging field that has become increasingly complex and professional over the last 20 years. The Urban Estate Management program is designed to provide

- valuers, real estate practitioners, property managers and other property practitioners with opportunities to enhance and extend their qualifications and expertise in the field;
- graduates in other fields such as architects, builders, planners, engineers, quantity surveyors, lawyers, project managers, economists and financiers with the opportunity to extend their professional qualifications and their understanding of property development and investment issues and techniques.

Expected outcomes of the program for students are as follows:

- understanding of the social, environmental, political, economic, managerial, legal and physical systems which contribute collectively to the effective management and development of property assets;
- ability to initiate and/or create proposals for the development of property and, as part of this process, satisfy economic, social, financial, legal, planning and building constraints;
- ability to determine the needs of the client organisation;
- ability to establish an appropriate management structure to allow the development to be completed as efficiently as possible;

- ability to monitor the development process ensuring that all consultants, the project manager and contractors satisfy the client needs;
- ability to estimate the social costs and benefits of development and, with community acceptance of this ability, to manage a property investment portfolio in order to provide an adequate return to the owner;
- ability to satisfy the needs of tenants;
- ability to protect, maintain, develop and enhance the urban environment;
- development of a keen appreciation of the professional ethic which emphasises responsibility and responsiveness to the community to initiate and/or create proposals for the development of property.

Qualifications for admission

To qualify for entry to the Graduate Diploma in Urban Estate Management an applicant shall hold a Bachelor's degree or a Diploma in Technology; or possess an equivalent qualification; or submit other evidence of general and professional qualification which demonstrates the applicant's educational preparation and capacity to pursue graduate studies.

The Graduate Certificate in Urban Estate Management is for applicants who have good practical experience but may lack the professional qualifications or academic entry requirements for the Diploma. Applicants will be assessed on their individual merits. On completion of the Certificate, articulation with the Graduate Diploma in Urban Estate Management or the Master of Land Economics is possible.

For both the Certificate and Diploma programs, all non-degree qualified applicants seeking admission are required to satisfy a Faculty interview panel that their experience is equal to the rigorous requirements of the course at whichever level they seek to enter.

Requirements

The Graduate Diploma in Urban Estate Management is a two-year part-time or one-year full-time course. Students must achieve 48 credit points from the subjects listed below. There are opportunities for additional study leading to the awards of Master of Land Economics or a Master of Project Management.

The Graduate Certificate in Urban Estate Management is a one-year part-time, full-fee-paying course. Students must achieve 24 credit points from the subjects listed below which are shared with the diploma program.

All subjects are provided by the Faculty. Not all subjects will be offered in each year and availability will depend upon viable subject enrolments.

Course structure

12511	Building Technology and Regulation	6cp
12518	Property Transactions	6cp
17701	Environment and Control ¹	6cp
12525	Property Analysis 1	6cp
12535	Property Analysis 2	6cp
12515	Property Life Cycle	6cp
12524	Property Development	4cp
12543	Property Development Project	4cp
17703	Property Taxation ¹	4cp
17517	Research Methodology ¹	4cp
12550	UEM Project	6cp
17507	Industry Project Studies 1 ²	12cp
17508	Industry Project Studies 2 ²	12cp
	Elective(s)	maximum 12cp

¹ Subjects shared with Master of Land Economics.

² Subjects shared with Master of Project Management. These subjects will only be credited towards a Graduate Certificate in Urban Estate Management if the projects selected are property related.

Graduate Diploma in Building Surveying and Assessment

Course code: AB57

Aims

The aims of this two-year part-time course are 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:

- multiskilled surveyors and facilitators within multidisciplinary groups engaged in the assessment and approval of urban projects on behalf of the community, via local government;

- professional building surveyors in private enterprise engaged in the certification of complexes for compliance with the relevant legislation;
- 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;
- showing an understanding of the roles and practices of all specialist disciplines (environmental health surveyors, planners, 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;
- in the preparation of codes and standards, and understanding the intent of the provisions of the relevant legislation;
- in the assessment of designs prepared in accordance with performance objectives;
- 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;
- in satisfying the requirements of the preceding point within a cost-effective framework;
- 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 and have substantial relevant experience, or submit such other evidence that demonstrates the applicant's 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 commencement, in the areas of Building Technology and Engineering Fundamentals. Further information and advice on this can be obtained from the Program Director.

Requirements

The Graduate Diploma in Building Surveying and Assessment requires the completion of eight six-credit-point subjects totalling 48 credit points. The course is undertaken by attendance at eight week-long (or equivalent) sessions over two years.

The course is divided into two blocks each containing four six-credit-point subjects. Only one block of four subjects will run each year. Block 1 is to be offered in 1997.

Course structure

Block 1

12518	Property Transactions	6cp
17701	Environment and Control	6cp
17707	Performance-based Certification	6cp
17708	Natural Disasters and Risk Management	6cp

Block 2

12170	Building Assessment	6cp
17709	Fire Engineering	6cp
12115	Building Science and Environmental Factors	6cp
17710	Special Issues	6cp

Graduate Certificate in Building Performance

Course code: AB62

Aims

The aims of this one-year part-time, full-fee-paying course are as follows:

- to provide an alternative entrance path for students wishing to enter the Graduate Diploma in Building Surveying and Assessment course who do not meet the entrance requirement (students who successfully complete this course may enter the Graduate Diploma in Building Surveying and Assessment course with advanced standing); and
- to provide an avenue for students to gain expertise in the area of building performance assessment.

Graduates of this course will have the following:

- a detailed knowledge of the effect of fire on buildings, a knowledge of building regulations related to fire and how to prevent or minimise fire-related damage;
- a detailed knowledge of how to assess the condition of the structure and a detailed knowledge of the environmental performance of buildings;
- an understanding of the building surveying certification process with particular reference to performance-based certification.

Qualifications for admission

To qualify for entry an applicant should hold a Bachelor's degree or a Diploma in Technology, or a tertiary qualification in a related field with at least three years' relevant experience and a demonstrated capacity to pursue graduate studies.

Requirements

The Graduate Certificate in Building Performance requires the completion of four six-credit-point subjects totalling 24 credit points. The course is undertaken by attendance at four week-long (or equivalent) sessions over one year. The course will not be offered in 1997. It will be available in 1998.

Course structure

17709	Fire Engineering	6cp
12170	Building Assessment	6cp
12115	Building Science and Environmental Factors	6cp
17707	Performance-based Certification	6cp

Graduate Certificate in Building Regulations

Course code: AB63

Aims

The aims of this one-year part-time, full-fee-paying course are as follows:

- to provide an alternative entrance path for students wishing to enter the Graduate Diploma in Building Surveying and Assessment course who do not meet the entrance requirements (students who successfully complete this course may enter the Graduate Diploma in Building Surveying and Assessment course with advanced standing); and
- to provide an avenue for students to gain expertise in the area of building regulations.

Graduates of this course will have the following:

- an understanding of the legal framework of regulations;
- an understanding of the planning process as it relates to building surveying;
- an understanding of the building surveying certification process with particular reference to performance-based certification;
- an understanding of the possible causes of damage to buildings, how to calculate the risks involved and how to manage them.

Qualifications for admission

To qualify for entry an applicant should hold a Bachelor's degree or a Diploma in Technology, or a tertiary qualification in a related field with at least three years' relevant experience and a demonstrated capacity to pursue graduate studies.

Requirements

The Graduate Certificate in Building Regulations requires the completion of four six-credit-point subjects totalling 24 credit points. The course is undertaken by attendance at four week-long (or equivalent) sessions over one year. The course will operate in 1997, but will not be offered in 1998.

Course structure

12518	Property Transactions	6cp
17701	Environment and Control	6cp
17707	Performance-based Certification	6cp
17708	Natural Disasters and Risk Management	6cp

Master of Planning

Course code: AB56

Graduate Diploma in Planning

Course code: AB55

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. The Master of Planning is offered as a two-year full-time or three-year part-time course. Students enrolled part time complete the Graduate Diploma in the first two years.

The Master of Planning degree has been accredited by the Royal Australian Planning Institute, and meets the educational requirements for corporate membership of the Institute.

Aims

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 covers the following topics: the major social and environmental issues of the cities and regions; the economics and the practicalities of how development takes place; the processes of statutory planning and development control

as subjects of academic inquiry, and capable of much higher levels of performance; and planning decisions and their influence on costs, function, feasibility, building form and aesthetics. The course 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 if the students have had relevant work experience since gaining an appropriate first degree, if they work in a related area, and if the attendance pattern provides for periods of intensive interaction 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. 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.

Requirements

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. In the three-year part-time program students attend 10 week-long sessions in the first two-and-a-half years and the equivalent of two weeks in the last half year. Full-time students attend four week-long sessions in each year of the two years of the program in conjunction with part-time students. Between attendance weeks they attend additional classes and seminars.

Course structure

Graduate Diploma and Part-time Master's degree

Year 1: Graduate Diploma and Master's degree

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	Sociology and Planning ¹	2cp
17515	Environmental Law ²	2cp

Year 2: Graduate Diploma and Master's degree

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	Politics and Planning ¹	2cp
17525	Property and Development Law ²	2cp

Year 3: Master's degree

17530	Planning 3	4cp
17751	Specific Issues in Planning	4cp
17755	Graduate Project (Planning) P/T	16cp

Full-time Master's degree

Year 1: Full-time Master's degree

17510	Planning 1	8cp
17511	Urban Economics and Finance 1	4cp
17516	Environment and Infrastructure 1	4cp
17513	Urban Design and Management 1	4cp
59338	Sociology and Planning ¹	2cp
17515	Environmental Law ²	2cp
17751	Specific Issues in Planning	4cp
xxxxx	Graduate Project (Planning) F/T	8cp
	Full-time Master's degree	

Year 2

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	Politics and Planning ¹	2cp
17525	Property and Development Law ²	2cp
17530	Planning 3	14cp
xxxxx	Graduate Project (Planning) F/T	8cp

^{1,2} These subjects alternate with each other in successive years.

Master of Project Management

Course code: AB53

Graduate Diploma in Project Management

Course code: AB65

Graduate Certificate in Project Management

Course code: AB66

The Project Management program provides a comprehensive grounding in both the underlying principles and practical aspects of project management as a powerful approach to administering complex tasks.

Delivered through coursework, distance and action learning, the courses in the program focus on the project life cycle, and are grounded in a generic core. Students also have opportunities for focusing on the project process as applied to specific project types and industries such as building and construction, information technology, organisational development or manufacturing.

Aims

The aims of the Project Management program are to develop practitioners who have the following skills and abilities:

- understand and apply project management principles and techniques;
- lead a group of specialist professionals engaged in the overall management, planning and control of projects across a wide range of industries and technologies;
- appreciate the roles and utilise the services of specialist consultants and contractors used in the project delivery process;
- communicate effectively, and at all levels;
- lead and motivate individuals and project teams;
- make decisions and/or policies and/or solutions on the basis of either complete or incomplete information;
- identify options and utilise the benefits of circumstance or unexpected opportunity;

- establish clear guidelines for complex tasks/situations and facilitate completion no matter what problems arise;
- satisfy economic, social, financial, legal, environmental and similar requirements;
- work within all corporate, production, organisational and/or technological constraints;
- evaluate the social impact, cost and benefits of the project and accurately assess community acceptance or otherwise;
- evaluate completed projects and ensure information about lessons learnt is available for improvement of future projects and processes.

Qualifications for admission

To qualify for entry to either the Master in Project Management or the Graduate Diploma in Project Management an applicant shall hold a Bachelor’s degree or an equivalent qualification, or submit other evidence of general and professional qualifications such that it demonstrates the applicant’s educational preparation and capacity to pursue graduate studies at the desired level. A minimum of five years’ work experience is expected.

To qualify for entry to the Graduate Certificate in Project Management an applicant shall hold a Bachelor’s degree or a Diploma in Technology or an equivalent qualification, or submit other evidence of general and professional qualifications such that it demonstrates the applicant’s educational preparation and capacity to pursue graduate studies at the desired level.

It is usual for graduates from whatever discipline to be accepted for enrolment. It should also be noted that the function of project management itself is such that substantial work experience can also provide a sound basis for formal study. The Project Management program is thus also designed for professional project managers who wish to further their knowledge base but who may lack degree or Diploma of Technology qualifications. Thus, all non-degree-qualified applicants must satisfy a Faculty interview panel that their practical experience is equal to the requirements of the course at whichever level they seek to enter.

Articulation from the Graduate Certificate to the Graduate Diploma and Master in Project

Management will be allowed for Certificate students with the approval of the Director of Program.

Graduates of the Graduate Diploma in Urban Estate Management enrolling in the Master of Project Management, would be entitled to exemptions of up to 36 credit points plus credit up to an additional 12 credit points for credit points gained in the Graduate Diploma in Urban Estate Management in subjects from the Master of Project Management as electives, or in subjects shared by the Urban Estate Management and Project Management programs.

All students are expected to be proficient in English comprehension and expression. Applicants previously educated in a language other than English may be required to undertake an assessment as approved by the Academic Board.

Requirements

The program structure allows students a choice of entry requirements and study paths leading to the award of Graduate Certificate (24 credit points), Graduate Diploma (48 credit points), and Master of Project Management (72 credit points). Each stage is self contained and can be undertaken through part-time or full-time study.

Course structures

Master of Project Management

Recommended part-time program

Year 1

17101	Project Process 1	6cp
17201	Project Process 2	6cp
17301	Project Process 3	6cp
17401	Project Process 4	6cp

Year 2

17105	Industry-Specific Project Process 1	6cp
17205	Industry-Specific Project Process 2	6cp
17305	Project Technologies 1	6cp
17405	Project Technologies 2	6cp

Year 3

17600	Graduate Project (MPM) P/T	14cp
17506	Industry-Specific Project Process 3	6cp
17517	Research Methodology	4cp
	<i>or</i>	
82905	Research Methods	4cp

Recommended full-time program**Year 1**

17101	Project Process 1	6cp
17201	Project Process 2	6cp
17301	Project Process 3	6cp
17401	Project Process 4	6cp
17517	Research Methodology	4cp
<i>or</i>		
82905	Research Methods	4cp
17601	Graduate Project (MPM) F/T	8cp

Year 2

17105	Industry-Specific Project Process 1	6cp
17205	Industry-Specific Project Process 2	6cp
17305	Project Technologies 1	6cp
17405	Project Technologies 2	6cp
17601	Graduate Project (MPM) F/T	6cp
	Elective(s)	6cp

Notes:

1. Graduates of the Graduate Diploma in Urban Estate Management enrolling in the Master of Project Management, would be entitled to exemptions of up to 36 credit points plus credit up to an additional 12 credit points for credit points gained in the Graduate Diploma in Urban Estate Management in subjects from the Master of Project Management, as electives, or in subjects shared by the Urban Estate Management and Project Management programs.

2. Suitably qualified applicants may, with the approval of the Director of Program, substitute

17507	Industry Project Studies 1	12cp
17508	Industry Project Studies 2	12cp
17509	Industry Project Studies 3	12cp

or

Electives 1 (12cp maximum)

for up to 36 credit points of subjects listed in the recommended full- and part-time programs except the subjects 17101 Project Process 1 to 17401 Project Process 4 and 17600 or 17601 Graduate Project which are core subjects for the Master's program. The Industry Project Studies subjects are intended as individual or group action learning or research projects.

3. 82905 Research Methods from the Master of Design (by coursework), 17517 from the Master of Land Economics or an equivalent Research Methods subject approved by the Director of Program is a corequisite for enrolment in 17600 and 17601 Graduate Project.

4. 17600 or 17601 Graduate Project (MPM) is required for graduation at Master's level unless an exemption from the subject is granted by the Director of Program with the approval of the Graduate Studies Committee.

5. Other program variations will be permitted with approval of the Director of Program.

Graduate Diploma in Project Management**Recommended part-time program****Year 1**

17101	Project Process 1	6cp
17201	Project Process 2	6cp
17301	Project Process 3	6cp
17401	Project Process 4	6cp

Year 2

17105	Industry-Specific Project Process 1	6cp
17205	Industry-Specific Project Process 2	6cp
17305	Project Technologies 1	6cp
17405	Project Technologies 2	6cp
<i>or</i>		
	Elective	6cp

Recommended full-time program**Year 1**

17101	Project Process 1	6cp
17201	Project Process 2	6cp
17301	Project Process 3	6cp
17401	Project Process 4	6cp
17105	Industry-Specific Project Process 1	6cp
17205	Industry-Specific Project Process 2	6cp
17305	Project Technologies 1	6cp
17405	Project Technologies 2	6cp

or

Elective 6cp

Notes:

1. Suitably qualified applicants may, with the approval of the Director of Program, substitute

17507	Industry Project Studies 1	12cp
17508	Industry Project Studies 2	12cp
17509	Industry Project Studies 3	12cp

or

Electives (6cp maximum)

for up to 24 credit points of subjects listed in the recommended full- and part-time programs except the subjects 17101 Project Process 1 to 17401 Project Process 4 which are core subjects for the Master's program. The Industry Project Studies subjects are

- intended as individual or group action learning or research projects.
- Other program variations will be permitted with approval of the Director of Program.

Graduate Certificate in Project Management

Recommended program

17101	Project Process 1	6cp
17201	Project Process 2	6cp
17301	Project Process 3	6cp
17401	Project Process 4	6cp
	<i>or</i>	
17105	Industry-Specific Project Process 1	6cp
17205	Industry-Specific Project Process 2	6cp
17305	Project Technologies 1	6cp
17405	Project Technologies 2	6cp
	<i>or</i>	
	Elective	6cp

Notes:

- Suitably qualified applicants may, with the approval of the Director of Program, substitute

17507	Industry Project Studies 1	12cp
17508	Industry Project Studies 2	12cp
17509	Industry Project Studies 3	12cp

 for up to 24 credit points of subjects listed in the recommended program if these subjects are taken as part of an industry-sponsored program.
- Other program variations will be permitted with approval of the Director of Program.

Master of Land Economics

Course code: AB58

Aims

The Master of Land Economics will enable students to study matters relating to the land economics field, with the purpose of adding value to their professional activity and minimising the cost to society in general and to clients in particular.

The course has three broad aims:

- to provide a thorough and advanced grounding in the land economics process, markets and institutions;

- to develop a range of skills and analytical techniques which will be of use to those seeking to work as researchers, analysts, managers or consultants within the land economics sector; and
- to provide a learning environment which will encourage the further development of critical thinking and value judgment skills at a strategic level in the field of land economics.

Qualifications for admission

Admission to the course will be assessed on merit given that a four-year full-time equivalent Bachelor's Degree in a land economics related discipline is a prerequisite qualification. Applicants will also need to demonstrate a minimum of three years experience in the land economics field.

More specifically, it is expected that graduates in Land Economics with a Bachelor's degree from UTS will gain direct entry to the course. Graduates in this discipline from other universities or graduates in other disciplines may be required to complete a qualifying program. Holders of the Graduate Diploma in Urban Estate Management from UTS who also hold an undergraduate degree, and have completed the subjects marked¹, will be granted full exemption from the first part-time year of the Master of Land Economics. No exemptions will be granted from the second part-time year.

Requirements

The Master of Land Economics requires the completion of 48 credit points on a two-year part-time basis. Students will undertake four week-long sessions in the first year and one week-long session and the Research Project subject in the second year.

Course structure

17701	Environment and Control ¹	6cp
17704	Advanced Property Finance	6cp
17703	Property Taxation ¹	4cp
17517	Research Methodology ¹	4cp
xxxxx	Elective	4cp
17705	Contemporary Issues in Land Economics	6cp
17706	Research Project – M Land Ec	18cp

¹ Subjects shared with the UEM program.

Master of Building in Construction Economics

Course code: AB59

Aims

The Master of Building in Construction Economics concerns advanced quantity surveying practice with a focus on issues concerning economic approaches to ecologically sustainable development (ESD). The course is designed for professionals in the construction industry, such as architects, engineers, developers, project managers, construction managers and, of course, quantity surveyors. The course aims to provide a learning environment that encourages the further development of critical thinking and value judgment skills at a strategic level in the field of Construction Economics. The course theme is 'economic approaches to ecologically sustainable development'.

Qualifications for Admission

Admission to this course will be assessed on merit given that a four-year full-time equivalent Bachelor's degree in a building-related discipline is a prerequisite qualification. Furthermore, entrants will need to demonstrate that they have at least three years' relevant experience in the construction industry. The latter requirement will be waived, however, where applicants have obtained an Honours level degree. The course will provide a means for applicants in a different yet allied profession to acquire a specialisation in construction economics.

In some cases it may be required that an applicant to the Master's degree enrol in a **Master's Qualifying Program**. This program is the same as the Semester Bridge (described under *Bachelor of Building in Construction Economics*) which runs over the summer term (December to February) and may be undertaken in a distance learning mode. Successful completion of this program will enable entry into the Master's degree in Autumn semester.

Requirements

The course is offered as two years of part-time or one year of full-time study (48 credit points) and is a full-fee-paying course. The course is run during normal teaching weeks.

A **full distance learning option** for the course is also available for both Australian and overseas applicants. Students are allowed to study from home without the need to physically attend classes at the University. It is possible to enrol at any time during the year and to liaise electronically with academic staff as the need arises. Assignment work is submitted electronically and prompt feedback supplied in a similar format. Students may attend lectures or seek personal tuition at the University if they wish, but it is possible to complete all requirements of the degree remote to the University, enabling overseas students to undertake the course on a part-time basis while maintaining full-time employment.

Course Structure

One-year full-time program

Year 1

17550	Environmental Economics	24cp
17560	Research Project	24cp

Two-year part-time program

Year 1

17550	Environmental Economics	24cp
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Year 2

17560	Research Project	24cp
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Postgraduate

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

This subject examines the theory of building environmental performance and applies the theory to issues of building occupancy and public health and safety.

17701

Environment and Control

6cp

This subject looks at property development and statutory control processes, including both statutory and strategic planning issues and practice. Students will seek alternative solutions and approaches to environmental issues and sustainable development. They will also look at community consultation and dispute resolution, and communication of strategic advice to stakeholders on environmental issues.

17707

Performance-based Certification

6cp

This subject covers intent of codes and regulations, regulation-making process, the Building Code of Australia, performance versus prescriptive provisions, drafting of building regulations, case studies, certification process, and certification of a major building.

17708

Natural Disasters and Risk Management

6cp

This subject covers natural hazards and their management, risk assessment techniques and regimes, quantitative methods, risk reduction and management, approvals and risk, and decision making in approvals process.

17709

Fire Engineering

6cp

This subject introduces students to concepts and physics of fire initiation and development, radiant heat assessments, prediction of egress times, principles of smoke management, fire protection systems, performance of building materials, fire safety engineering, performance-based assessment, and maintenance programs for fire protection and safety systems.

17710

Special Issues

6cp

In this subject students prepare and submit a 10,000 word report, involving the detailed study of an individual topic related to the field of building surveying and assessment. The thesis shall comprise identification of the problem, a thorough literature review of the topic, presentation of a state-of-the-art report, and presentation of the report to peers.

12170

Building Assessment

6cp

This subject covers building services, maintenance, technological change, diagnostic, security systems and assessment practice.

12511

Building Technology and Regulation

6cp

In this subject students undertake a critical examination of building structure, cladding and service systems for a range of building types. The subject covers the following topics:

maintenance, life cycle costing and energy efficiency; purpose and application of building regulations; and interpretation of building documentation in the context of property development and management processes.

12515

Property Life Cycle

6cp

A strategic and responsible approach to management of property assets requires the ability to understand and respond to economic and social influences which affect the performance of property through a life cycle which begins with raw land and includes development, management and redevelopment. Marketing and effective property management techniques are examined in this subject as responses to changing economic and social forces in the strategic management of property assets.

12518

Property Transactions

6cp

This subject looks at the following topics: the nature of the ownership of personal property including intellectual property; the nature of ownership of real property including the related concepts of title, leases, mortgages and conveyancing transactions, options to purchase; an overview of the law of contract with emphasis on construction industry contracts and joint venture agreements; the law of negligence including liability for negligently given advice or certification, the operation of the statute of limitations; and the manner in which local government building, planning and subdivision approvals are given including the mechanisms for appeal to the Land and Environment Court.

12524

Property Development

4cp

This subject provides a framework, tools, techniques and practical approaches for individuals and organisations involved in property development. Material covered will include the following: strategic planning; introduction to project management of property developments; team formation; development and management; project initiation, planning, procurement and completion; the property development

process; organisational structure and culture; human resource management; industrial relations; and characteristics and needs of different property development types.

12525

Property Analysis 1

6cp

In this subject students study the following: general accounting principles; capital budgeting techniques; discounted cash-flow analysis; risk analysis techniques; interest rate theory and discount rates; traditional and contemporary principles and methods of valuation, advanced capitalisation and other valuation methods; valuation of different classes of property; and sources of finance.

12535

Property Analysis 2

6cp

This subject covers the following topics: site identification and analysis; financial feasibility analysis for both residential and nonresidential properties; estimation of development feasibility components; sensitivity and risk analysis; preparation of development business plans and finance proposals; investment market and portfolio analysis; property investment portfolio management including impact of economic size, market constraints, physical constraints, maintenance of market position, reappraisal and culling; risk exposure, profiles, gearing and management; current issues in property and non-property asset investment; and the use of basic computer applications.

12543

Property Development Project

4cp

This subject focuses on the integration of the property development process from initiation of development proposal to completion of project. Student teams prepare and present a business case for a property development project which they have identified in response to a given client brief.

12550**UEM Project***6cp*

This subject involves an independent study in an area related to Urban Estate Management, selected by the student, subject to approval of the Director of Program.

17101**Project Process 1***6cp*

This subject is an introduction to and overview of generic project management. It covers the following topics: characteristics of projects and project management; generic project phases and life cycles; an introduction to project management processes; the context of project management; and teams and teamwork in project management.

17105/17205/17506**Industry-Specific Project Process 1/2/3***6cp*

Each subject in this strand will present a project management case study for a specific industry or project type. Industry-specific project processes and practices will be examined and critically evaluated and compared with generic process models. Building and construction industry projects will form the basis of one subject in this strand. Other specific industries and project types which may be examined in a subject in this strand, are as follows: Information Technology, 'soft' projects such as Research and Development; Change Management or Organisation Change; and Product Development.

17201**Project Process 2***6cp*

This subject examines the first, or Initiation and Concept phase, of a four-phase generic project process or life cycle. It covers the following topics: stakeholder identification; identification of needs and opportunities; internal and external factors affecting projects; project appraisal; project objectives and performance measures; generation and analysis of options; feasibility studies and sensitivity analysis; initial project time, cost, risk and quality plans; testing and approvals; and assessment of process capability.

17301**Project Process 3***6cp*

This subject examines the second, or Planning and Development phase, of a four-phase generic project process or life cycle. It covers the following topics: project scope management; project scheduling; development of project budgets; project quality management; project organisation and resourcing; project communication planning; project risk management; project documentation; change management; asset management; and value management.

17305/17405**Project Technologies 1/2***6cp*

Each subject in this strand will cover, in more depth than is possible in other parts of the course, one or more project management topics which may be drawn from the following: the latest research and development in project management; Managing Project Interfaces; Project Human Resource Management; Project Organisation; Project Leadership; Risk Management; Project Information Management; Advanced Project Cost and Scheduling; Value Engineering and Management; Risk Management; Quality Management and Quality Assurance; Financial Management; Marketing; Projects and the Environment.

17401**Project Process 4***6cp*

This subject examines the third (Implementation) and fourth (Completion) phases of a four-phase generic project process or life cycle. It covers the following topics: management of internal and external project environments; management of stakeholder relationships, project scope and change control; project time and cost control; quality control and quality assurance; management of project human resources; project information management; contract management; conflict management; project commissioning and handover; post-project evaluation; and continuous improvement.

17516

Environment and Infrastructure I

4cp

This subject focuses on the physical environment and development. It covers ecology, geomechanics, climate and noise measurement, with an examination of erosion, water pollution, solar access, air quality, wind effects and noise pollution, and the source of environmental design criteria for urban development. It also looks at managing movement, current and projected practice in transportation engineering, traffic management, public transport provision and the design, construction and maintenance of roads, paratransit, and pedestrian requirements and opportunities.

17510

Planning I

8cp

In the first semester, this subject involves a study of the following topics: 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; and the development of skills in relevant aspects of planning practice. In the second semester, it involves the following: 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; and the development of skills in relevant aspects of planning practice.

17511

Urban Economics and Finance I

4cp

This subject looks at the following topics: the concepts of microeconomics and macroeconomics; 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; and the nature of a local economy.

17513

Urban Design and Management I

4cp

This subject covers historiography, urban history, the history of State and local government in NSW, and local history. More specifically it looks at 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. It is an introduction to the following topics: 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; and principles, criteria and values used in urban design.

17515

Environmental Law

2cp

This subject covers the following topics: 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; and implications for government.

More specifically it looks at the following topics: 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; and current issues and controversies in environmental law and policy.

17520

Planning 2

8cp

This subject enables students to develop skills in relevant aspects of planning practice. In the first semester, students will assess 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. In the second semester, they will prepare final plans for the chosen site, which include the following: goals and objectives; policies; implementation mechanisms; visualisation; and the presentation and promotion of the plan.

17521**Urban Economics and Finance 2**

4cp

This subject looks at the following topics: 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; and urban and regional economic issues. In order to demonstrate economic method and examine a topic in depth, students will study one of the following topics: housing, recreation, tourism, transportation, public sector finances, or the incidence of infrastructure costs.

17522**Environment and Infrastructure 2**

4cp

This subject focuses on management of land and services. Topics covered include the following: the principles of soil and nature conservation and catchment management; the cultural significance of natural and historic environments, and heritage conservation; and the design, construction and operation of water supply, sewerage, drainage, gas, electricity and telecommunications systems. Students will look at current practice in the design and management of infrastructure, and study the following topics: the values, concepts and methods used in engineering and related professions; the use of warrants and specifications; approaches used in the design, construction, operation and maintenance of infrastructure and other elements in the built environment; and the strengths and limitations of these practices.

17523**Urban Design and Management 2**

4cp

This subject covers three areas. The first of these is the study of the development process which covers the following topics: the principles of the management of development and construction processes; and the roles of the various players in urban development. The second is planning administration which covers the following topics: the management of public sector planning agencies; the roles of planning staff; and professional practice

management. The third is institutional context which covers the following topics: 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

This subject looks at aspects of property law including occupier's liability, tenancy, resumption and compensation, and nuisance law as it relates to planning and the environment.

The subject also covers planning and development law including legislative framework, comparative models and intergovernmental relations; health and building control issues and related issues in planning; developer contributions; and current issues and controversies in planning and development law.

17530**Planning 3**

4cp

In this subject students will integrate the work of the previous four semesters in relation to the chosen site. They will examine the costs and impacts of the planning and regulatory mechanisms, make a review of the decision-making processes and develop skills in relevant aspects of planning practice.

17550**Environmental Economics**

24cp; 18hpw

In this subject students explore issues affecting the interaction between economic development and environmental protection. It covers the following topics: ecologically sustainable development; the role of construction economists in providing strategic advice to clients and government on the most effective use of resources over a project's life cycle; advanced project evaluation techniques; risk identification, analysis and management; and political, legal, ecological and societal considerations affecting environmentally sensitive projects.

17560**Research Project***24cp; 18hpw*

In this subject students will prepare and submit a 25,000 word dissertation, involving the detailed study of an individual topic related to the field of ecologically sustainable development. The dissertation will comprise identification of a problem, a thorough literature review of the topic and development of a solution based on a selected research methodology. The work should make a contribution to existing knowledge in the field. Students will undertake workshops on research methodology and quantitative methods.

17600**Graduate Project (MPM) P/T****17601****Graduate Project (MPM) F/T***14cp*

This subject involves a major study of a project or topic relevant to project management, undertaken by each student individually, and resulting in the preparation of a comprehensive report.

17701**Environment and Control***6cp*

This subject covers the following topics: property development and statutory control processes, including both statutory and strategic planning issues and practice; alternative solutions and approaches to environmental issues and sustainable development; community consultation and dispute resolution; and communication of strategic advice to stakeholders on environmental issues.

17703**Property Taxation***4cp*

This subject involves the following: the analysis of various forms of taxation relating to property holdings and property investment; income tax, capital gains taxation, depreciation allowances, land tax and stamp duties; taxation of trusts; negative gearing; and alternative forms of taxation and their likely impacts on the property industry.

17704**Advanced Property Finance***6cp*

This subject covers the following topics: sources and types of finance available for various property developments; debt versus equity; specialised financing techniques, including hybrids, long-term and offshore finance; project finance; and evaluation techniques and risk management.

17705**Contemporary Issues in Land Economics***6cp*

The content and topics of this subject will vary from year to year, depending on the topicality of particular issues. In 1997, topics presented include the following: property cycles, the impact of the Sydney Olympics 2000 upon the property industry; the growth of managed funds and their implications for the property industry; and international influences upon the property industry.

17706**Research Project – Master in Land Economics***18cp*

In this subject students will undertake a detailed, in-depth and supervised study of an individual topic related to the field of land economics. They will prepare and submit a 25,000-word thesis which will comprise identification of a problem, a thorough literature review of the topic and development of a solution based on a selected research methodology. The work should make a contribution to existing knowledge in the field.

17517**Research Methodology***4cp*

This subject covers research methods and includes a study of the research process, research design, sampling, and estimation of sample size. Students study computer applications, with an introduction to computer analysis using the SPSS-X package. Students also study statistical methodology, which incorporates elementary statistical analysis, with emphasis on non-parametric statistics. Theory generation is also part of the subject.

17751**Specific Issues in Planning***4cp*

This subject covers planning in the contemporary world of electoral politics, bureaucracies, business, resident action and environmental campaigns. Students will undertake a detailed analysis of a small number of specific current issues.

xxxxxx**Graduate Project (Planning) F/T****17755****Graduate Project (Planning) P/T***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 in cases where the above approach is not feasible.

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.

59338**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.

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.

Doctor of Philosophy in Design

Course code: D057

Doctor of Philosophy in Architecture

Course code: AA52

Doctor of Philosophy in Building/ Quantity Surveying

Course code: AB54

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 1, 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 and Graduate Programs 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 annually. Candidates are also invited to participate in other research activities occurring in the Faculty.

The minimum duration for a PhD program is two to three years full time, and three to four years part time (depending on whether the candidate is the holder of a Bachelor's or Master's degree).

Doctor of Architecture

Course code: AA54

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.

The requirements for admission, registration and assessment relating to this program are currently under review. Further advice can be obtained from the Faculty Office.

Master of Architecture

Course code: AA51

Master of Applied Science

Course code: AB51

Master of Design

Course code: D058

A limited number of places are 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 and Graduate Programs 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. The thesis may take the form of an original theoretical or investigative dissertation, or may be built around a piece of developmental or creative work. The format of the body of work and the length of the written dissertation will be determined after discussion within Faculty staff and must be approved by the Graduate Studies Committee.

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 are 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.

General

Applicants for all of the above courses are advised to consult the UTS *Calendar* for details relating to eligibility for admission, submission of thesis etc. Information may also be obtained from the University Graduate School.

Prospective applicants should discuss possible topics of research with the Associate Dean, Research and Graduate Programs (or nominee).

Alphabetical list of subjects

Aboriginal and Torres Strait Islander Art and Culture 1	80039	Cost Planning and Modelling	16521
Aboriginal and Torres Strait Islander Art and Culture 2	80040	Creative Writing 1	51002
Advanced Computer-aided Design	81840	Creative Writing 2	51006
Advanced Cost Engineering	16523	Design 1	85000
Advanced Property Finance	17704	Design 5	11052
Advanced Valuation Methods	16353	Design 6	11062
Appraisal and Statistics	16163	Design and Society	89104
Appropriate Technology	82015	Design and Sustainable Human Futures 1	88310
Architectural Design 1	11911	Design and Sustainable Human Futures 2	88410
Architectural Design 2	11921	Design and Sustainable Human Futures 3	88510
Architectural Design 3	11931	Design and Sustainable Human Futures 4	88610
Architectural Design 4	11941	Design and Technology	89919
Architectural Design and Technology 1	11951	Design Case Studies 1	89912
Architectural Design and Technology 2	11961	Design Case Studies 2	89013
Architectural Experience	13998	Design Decision Making	82004
Architectural Practice 2A	11058	Design Evaluation	16621
Architectural Practice 2B	11059	Design for Theatre 1	88312
Architectural Practice 3A	11068	Design for Theatre 2	88412
Architectural Practice 3B	11069	Design for Theatre 3	88512
Building and Construction Project Management Studies 2	17506	Design for Theatre 4	88612
Building Assessment	12170	Design History	81025
Building Design	16611	Design History 1	80051
Building Experience (F/T)	16197	Design History 2	80071
Building Experience (P/T)	16198	Design Honours	11946
Building Science	16711	Design Management 1	12588
Building Science and Environmental Factors	12115	Design Management 2	12589
Building Technology	16153	Design Management 3	12590
Building Technology (MBEnv)	12586	Design Practice 1	89914
Building Technology and Regulation	12511	Design Practice 2	89012
Cinema and TV Studies	80056	Design Project	12583
Class and Culture	80080	Design Project (F/T)	89918
Client Presentation	80073	Design Project (P/T)	89917
Communication Technology	81021	Design Project F&T 2	83220
Communications	51388	Design Project F&T 3	83330
Computations	16211	Design Project F&T 4	83440
Computer-aided Design	81922	Design Project F&T 5	83550
Computer Graphics 1	81024	Design Project F&T 6	83660
Computer Graphics 2	81924	Design Project F&T 7	83770
Computers and Design 3	88501	Design Project ID 2	84220
Computers and Design 4	88601	Design Project ID 3	84330
Construction 1	16115	Design Project ID 4	84440
Construction 2	16116	Design Project ID 5	84550
Construction 3	16117	Design Project ID 6	84660
Construction 4	16118	Design Project ID 7	84770
Contemporary Issues in Land Economics	17705	Design Project IT 2	86220
Contextual Studies 1	16601	Design Project IT 3	86330
Contextual Studies 2	16602	Design Project IT 4	86440
Contextual Studies 5B	11055	Design Project IT 5	86550
Contextual Studies 5C	11056	Design Project IT 6	86660
Contract Administration	16411	Design Project IT 7	86770
		Design Project VC 2	87220
		Design Project VC 3	87330
		Design Project VC 4	87440

Design Project VC 5	87550	Illustration 1	88304
Design Project VC 6	87660	Illustration 2	88404
Design Project VC 7	87770	Illustration 3	88504
Design Research	12582	Illustration 4	88604
Design Seminar	82912	Industry-Specific Project Process 1	17105
Design Systems	80052	Industry-Specific Project Process 2	17205
Desktop Publishing	81022	Industry-Specific Project Process 3	17506
Development Management	16453	Industry Studies	16300
Drawing and Surveying	16201	Innovation, Management and Design	81921
Economic Analysis	16513	International Property Investment	16751
Economic Development	16522	Introduction to Design Computing	81923
Economic Management 1	16511	Introduction to Law	16851
Economic Management 2	16512	Introduction to Valuation	16351
Economics	16551	Investment and Portfolio Management	16454
Economics (MBEnv)	12587	Land Economics Experience (F/T)	16997
Elective Project	11071	Land Economics Experience (P/T)	16998
Elective Studies	11066	Land Studies 1	16150
Elective Studies 1	11915	Land Studies 2	16152
Elective Studies 2	11925	Land Studies 3	16452
Elective Studies 3	11935	Law (MBEnv)	12585
Engineering Services	16310	Legal Studies 1	16801
Environment and Control	17701	Legal Studies 2	16802
Environment and Infrastructure 1	17516	Major Project F&T	83880
Environment and Infrastructure 2	17522	Major Project ID	84880
Environmental Communications 1	88302	Major Project IT	86880
Environmental Communications 2	88402	Major Project VC	87880
Environmental Communications 3	88502	Management 2	16402
Environmental Communications 4	88602	Management 3	16403
Environmental Design	16652	Management 4	16404
Environmental Economics	17550	Management 5	16405
Environmental Law	17515	Management 6	16406
Environmental Planning	16622	Management Techniques and Design	81020
Environmental Systems	80072	Market Research	80070
Estimating	16533	Marketing	80050
Estimating 1	16531	Marketing and Design	81920
Estimating 2	16532	Master's Research Elective	11956
Facility Evaluation	16155	Material Science	16721
Film and Television Documentary	80079	Materials 1	16701
Film and Video Design 1	88308	Materials 2	16702
Film and Video Design 2	88408	Media Studies	51007
Film and Video Design 3	88503	Natural Disasters and Risk Management	17708
Film and Video Design 4	88603	Performance-based Certification	17707
Finance and Investment Analysis	16553	Photography 1	88305
Financial and Trust Accounting	16552	Photography 2	88405
Fire Engineering	17709	Photography 3	88505
Furniture Design 1	88311	Photography 4	88605
Furniture Design 2	88411	Photography and Video	82914
Furniture Design 3	88511	Photography for Designers	82915
Furniture Design 4	88611	Planning 1	17510
Graduate Project (MPM) F/T	17601	Planning 2	17520
Graduate Project (MPM) P/T	17600	Planning 3	17530
Graduate Project (Planning) F/T	xxxxx	Planning and Environmental Law	16853
Graduate Project (Planning) P/T	17755	Politics and Planning	59336
Graphic Visualisation	82016	Popular Culture	80053
Honours Elective Thesis	11945	Preparatory Studies	16001
Honours Qualifying	11936	Professional Practice	16131
Human Factors and Design	82009	Professional Practice 1	11914

110 ALPHABETICAL LIST OF SUBJECTS

Professional Practice 2	11924	Sociology and Planning	59338
Professional Practice 3	11934	Sociology of Design	82902
Professional Practice 4	11944	Special Issues	17710
Professional Practice 5	11954	Special Studies 1	82913
Professional Practice 6	11964	Special Studie: 2	82014
Project	16221	Specialised Valuation Topics	16355
Project	16961	Specific Issues in Planning	17751
Project Planning and Risk	16534	Statistics	16161
Project Process 1	17101	Statutory Valuation and Litigation	16356
Project Process 2	17201	Structures 1	16901
Project Process 3	17301	Structures 2	16902
Project Process 4	17401	Structures 3	16903
Project Technologies 1	17305	Technological Change	82903
Project Technologies 2	17405	Technology 1	11912
Property Analysis 1	12525	Technology 2	11922
Property Analysis 2	12535	Technology 3	11932
Property and Development Law	17525	Technology 4	11942
Property Development	12524	Textiles 1	88306
Property Development Project	12543	Textiles 2	88406
Property Life Cycle	12515	Textiles 3	88506
Property Taxation	17703	Textiles 4	88606
Property Transactions	12518	Theory Studies 1	11913
Psychology of Design	82901	Theory Studies 2	11923
Quantities 1	16541	Theory Studies 3	11933
Quantities 2	16542	Theory Studies 4	11943
Quantity Surveying 1	16501	Theory Studies 5	11953
Quantity Surveying 2	16502	Theory Studies 6	11963
Quantity Surveying 3	16503	3D Computer Animation 1	81925
Quantity Surveying Practice	16506	3D Computer Animation 2	81030
QS Project	16224	Transportation Design 1	88309
QS Project (Summer)	16225	Transportation Design 2	88409
Real Estate 1	16361	Transportation Design 3	88509
Real Estate 2	16456	Transportation Design 4	88609
Real Estate Law	16854	2D and 3D Communication	82017
Research Dissertation F&T	83780	UEM Project	12550
Research Dissertation ID	84780	Urban Architecture	12584
Research Dissertation IT	86780	Urban Design and Management 1	17513
Research Dissertation VC	87780	Urban Design and Management 2	17523
Research Methodology	17517	Urban Economics	16554
Research Methods	82905	Urban Economics and Finance 1	17511
Research Project	17560	Urban Economics and Finance 2	17521
Research Project M Land Ec	17706	Urban Planning	16651
Research Seminar	82013	Urban Regeneration Process 1	12570
Rural Valuation	16354	Urban Regeneration Process 2	12575
Services 1	16301	Urban Regeneration Process 3	12579
Social Theory and Australian Society 1	51003	Valuation Methodology	16352
Social Theory and Australian Society 2	51008	Video for Designers	82916
Sociology (MBEnv)	12564	Visual Perception	80076

Faculty Board

Faculty Board in Design, Architecture and Building

Ex officio members

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Associate Professor G Caban (Chair)

Associate Dean,

Undergraduate Programs

Associate Professor C Roberts

Associate Dean,

Professional and Industry Programs

Associate Professor W Barnett

Associate Dean,

Research and Graduate Programs

Professor D Lenard

Professor

Professor N Quarry

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University Librarian's representative

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Centre for Learning and Teaching

Ms J McKenzie

Faculty Board in Business

Vacant

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Mr W Granwal

Mr S Harfield

Mr R Hayes

Mr P Healy

Ms S Hewson

Mr M Hill

Ms V Horridge

Mr A Karantonis

Mr J Kesteven

Dr C Langston

Mr T Laurence

Mr P Laz

Ms C Lockhart

Mr T Loveday

Mr R Loveridge

Ms S Martin

Mr D McManus

Mr G Moor

Ms J Muir

Associate Professor C Nielsen

Dr J Oluwoye

Mr K Pearson-Smith

Ms K Remington

Mr T Royce

Dr G Searle

Mr N Shooter

Ms I Shuhin

Ms L Silbery

Mr R Small

Mr K Smith

Mr P Smith

Mr D Springett

Associate Professor D Tomkin

Mr G Verghese

Ms J Wilson

Elected student members

Ms L MacLarty

Staff list

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Architecture and Building*

G Caban, BA, MEd (Syd), DipEd (Syd Teach Coll), GradDipCommunication (NSWIT), MDIA (ED), AADM

*Associate Professor and Associate Dean,
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Associate Dean, Research and Graduate Programs (Jan – June)

S Harfield, BArch (Hons), MArch St (Adel), MSAHANZ, MCSA

Professor of Building Studies and Associate Dean, Research and Graduate Programs (July – Dec)

D Lenard, MAppSc (NSWIT), FAIQS, MAIB

Dean's Unit

Executive Officer

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Administrative Officer, Research and Graduate Programs

L Cousins, BSc (Hons) (UNSW)

Executive Assistant, Undergraduate Programs

D Yelavic

Receptionist

I Shuhin

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Faculty Administrator

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S G Pocock

Projects Officer

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E Wood

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S Looi

Financial Assistant

P H W Chan

Purchasing Clerk

C K H Teo

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S A Hewson

Student Liaison Assistant

N Singh

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Technical Officer, Fashion

M V Spear

Workshop Manager

A Pearson

Technical Officer, Workshop

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A Royce, BA, BA Communication (UWS), GradDipDesign (UTS)

Production Coordinator, Animation and Video

C Eade, DipArt (NCAE), GradDip Communication (UTS)

Computing Unit

Assistant Lab Manager

H Trisnodjojo, MEEng (SWCU)

Computing Services Coordinator

A Looney

Directors of Programs and Senior Lecturers

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Construction Management

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Senior Lecturers

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W Granwal, BE (Hons), ME (Auck),
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K E Pearson-Smith, BArch (NSWIT), ARAIA,
AIArbA
D B Springett, BSc (Arch), BArch (UNSW)

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P J Cantrill, BSc (Arch), BArch (Syd)
A Caro, BArch (NSWIT), MBEnv (UTS),
RAIA
J Muir, BArch (UNSW), ARAIA
J G Phillips, BA (Hons) (Syd), PhD (Lond)

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V Ireland, BE (UNSW), BA, MEngSc, PhD
(Syd), ASTC FAIB, MIEAust
J Mant, BA, LLB, DipTCP (Syd)
A M Stretton, BE (Tas), MA (Oxford),
AMIEAust

Honorary Associates

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E J Tooher, BSc, BE (Civil) (Syd), MAIPM,
MIEAust
K Yao, MPM (UTS)

*Senior Lecturer and Graduate Research**Coordinator*

J O Oluwoye, DipCart/RemSen
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(How), PhD (UNSW), MCIT, AITPM,
MAGSM, MNITP, MREAAA, MAPA,
MWCTRS

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B R Longfoot, BE, MEngSc (UNSW), ASTC,
MIEAust, MAIB
N Shooter, StructEngCert (STC), BAppSc
(NSWIT), AIMM, MAIB
G H Searle, BA (Hons) (Adel), PhD (Macq),
MRAPI, MIAG
P Waxman, BA (Hons), DipEd (SUNY),
DipEc (Stockholm), MBA (Wash), AIVLE,
ASA

Lecturers

D Bajaj, BE (MIT), MConstMgt (UNSW),
Grad IEAust PEng, MAACE
R Best, BSc (Arch) (Syd), BAppSc (UTS),
AAIQS
P B Cashmore, BA, MUP (Melb),
GradDipUrbanSociology (SIT), GradDipProp
(RMIT)
P H Clarke, BBuild (UNSW), GradDipEd
(Tech) (SCAE), GradDipEdStuds
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