



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



University of Technology, Sydney

1998

***UTS Faculty of
Design, Architecture
and Building
Handbook
1998***

The University attempts to ensure that the information contained in this handbook is correct as at 28 November 1997. 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,
Registrar's Division

Cover

UTS – The Global Classroom
UTS congratulates our first group of International Studies students who will spend 1998 studying overseas in the country of their choice.

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 and Harris Streets, 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 and Buckland Steets,
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

Australian Technology Park Sydney Ltd

Institute for Sustainable Futures

- Suite 213
National Innovation Centre
Cnr Garden, Cornwallis and Boundary
Streets
Eveleigh NSW 1430
Telephone: (02) 9209 4350
Fax: (02) 9209 4351

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 Building, 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

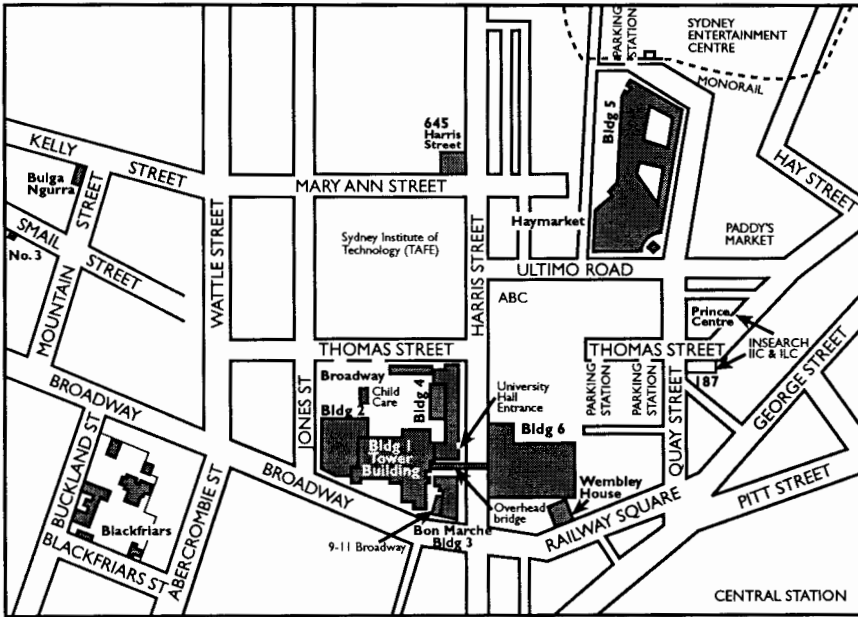
- 689 Springwood Rd
Yarramundi NSW 2753

Stroud Field Station

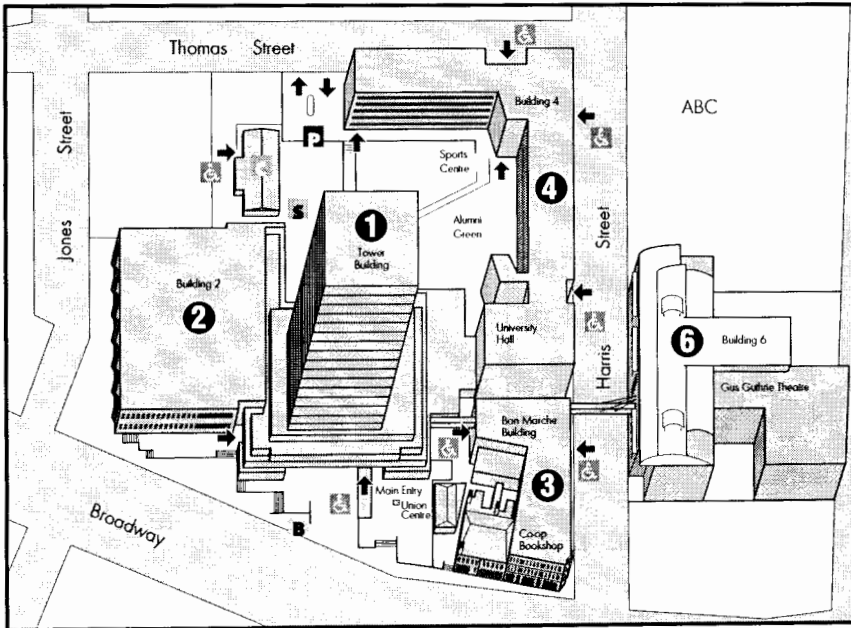
- 2605 The Bucketts Way
Booral NSW 2425

CAMPUS MAPS

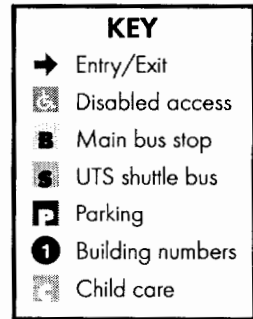
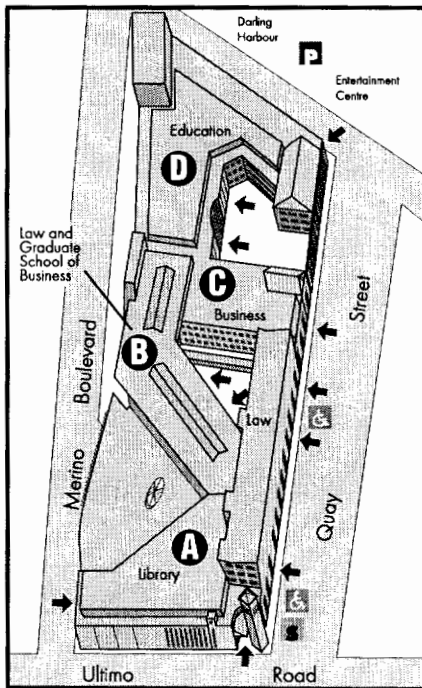
City campus



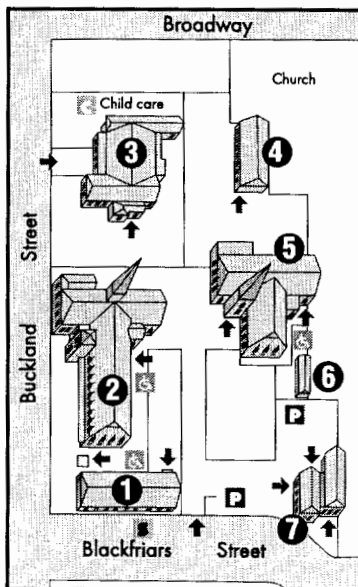
Broadway



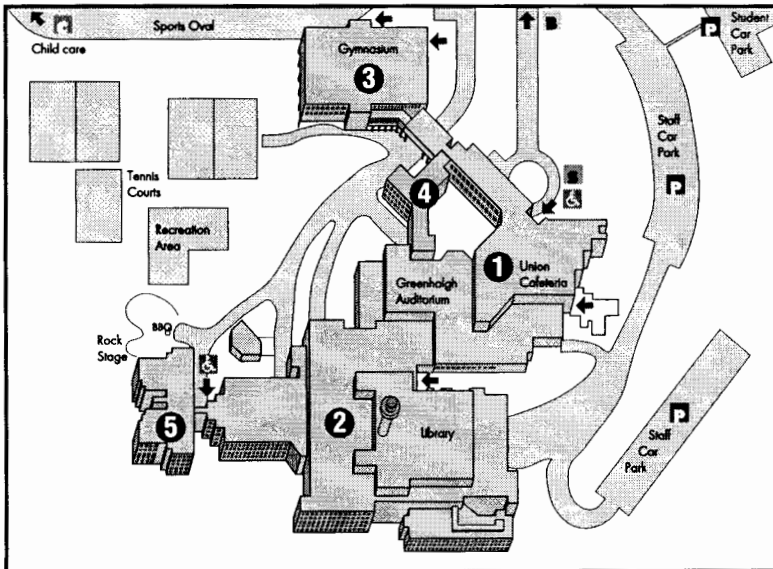
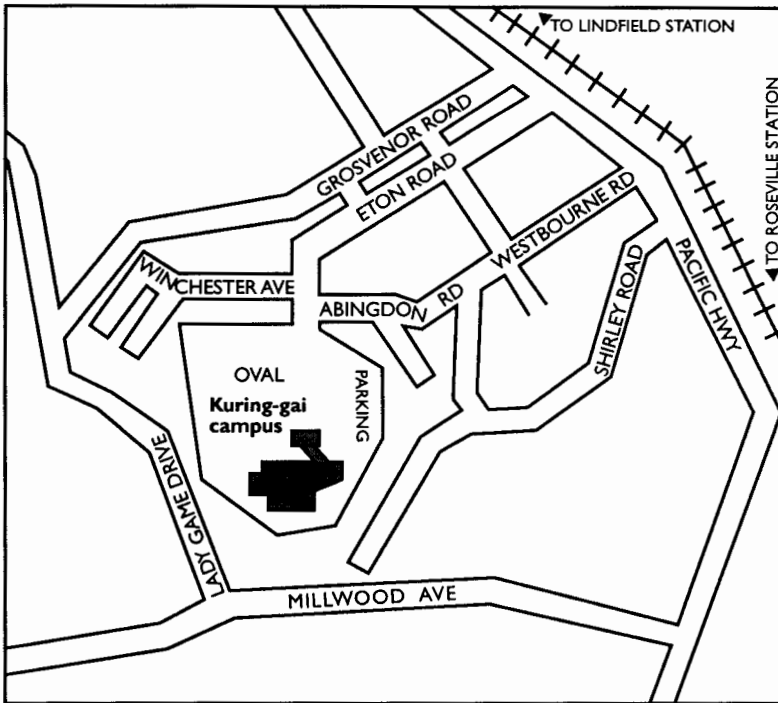
Haymarket



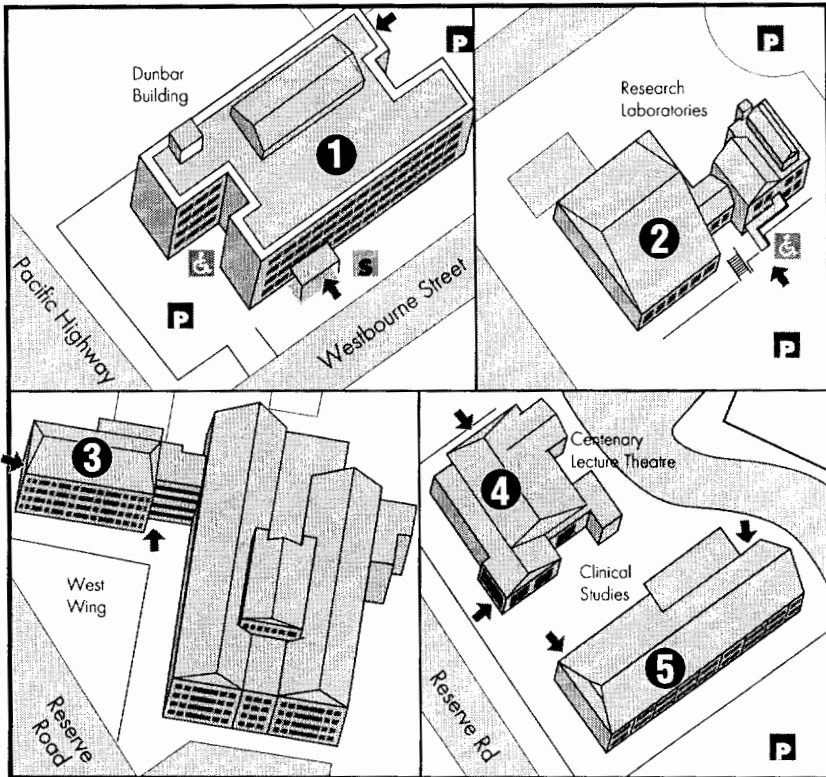
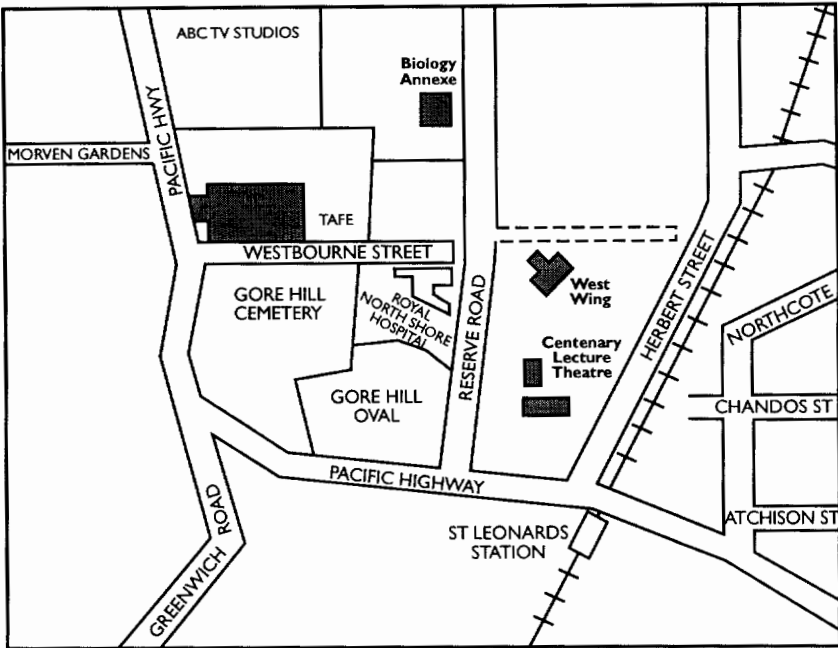
Blackfriars



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

Email inquiries

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

International – intlprograms@uts.edu.au

PRINCIPAL DATES FOR 1998

Autumn semester

January

- 2 Release of HSC results
- 9 Formal supplementary examinations for 1997 Spring semester students
- 9 Closing date for changes of preference to UAC from 1997 NSW and ACT HSC applicants
- 16 Final examination timetable for Summer session
- 23 Main round of offers to UAC applicants
- 26 Australia Day – public holiday
- 26 Public school holidays end
- 28 Closing date for changes of preference to UAC for final round offers
- 28-30 Enrolment of new undergraduate students at City campus (and 2-4 February)

February

- 2 Last day for continuing students to pay their 1998 service fees
- 2-4 Enrolment of new undergraduate students at City campus (and 28-30 January)
- 6 Final round of offers (UAC)
- 2-13 Formal examinations for Summer session
- 23 Release of results for Summer session
- 5-26 Enrolment of students at City campus

March

- 2 Classes begin
- 4-5 Enrolment (External award, Non-award and Exchange students)
- 13 Last day to enrol in a course or add subjects
- 20 Last day to pay HECS
- 30 Last day to apply to graduate in Spring semester 1998
- 31 Last day to apply for leave of absence without incurring student fees/charges¹
- 31 Last day to withdraw from a subject without financial penalty¹
- 31 HECS census date

April

- 9 Last day to withdraw from a course or subject without academic penalty¹
- 9 Public school holidays begin
- 10 Good Friday
- 13-17 Vice-Chancellors' Week (non-teaching)
- 14-17 Graduation (Kuring-gai)
- 24 Provisional examination timetable available
- 25 Anzac Day – public holiday
- 27 Public school holidays end

May

- 1 Applications available for undergraduate courses where applicable
- 1 Applications open for available postgraduate courses for Spring semester 1998
- 4-15 Graduation (City)
- 15 Examination masters due
- 29 Closing date for undergraduate and postgraduate applications for Spring semester
- 29 Final examination timetable

June

- 8 Queen's Birthday – public holiday
- 12 Last teaching day of Autumn semester
- 13-30 Formal examination period (and 1-3 July)

July

- 1-3 Formal examination period (and 13-30 June)
- 3 Autumn semester ends
- 3 Public school holidays begin
- 6-10 Vice-Chancellors' Week (non-teaching)
- 13-17 Formal alternative examination period for Autumn semester students
- 20 Public school holidays end
- 24 Release of Autumn semester examination results; two days earlier via UniPhone™
- 27 Formal supplementary examinations for Autumn semester students

Spring semester

August

- 3 Classes begin
- 3 Applications available for undergraduate and postgraduate courses for Autumn semester 1999
- 7 Last day to withdraw from full year subjects without academic penalty¹
- 14 Last day to enrol in a course or add subjects
- 31 Last day to apply for leave of absence without incurring student fees/charges (Spring enrolments only)¹
- 31 Last day to withdraw from a subject without financial penalty¹
- 31 Last day to apply to graduate in Autumn semester 1999
- 31 HECS census date

September

- 11 Last day to withdraw from a course or subject without academic penalty¹
- 25 Provisional examination timetable available
- 25 Public school holidays begin
- 28 Vice-Chancellors' Week (non-teaching) begins
- 28-30 Graduation (City)
- 30 Closing date for undergraduate applications via UAC (without late fee)
- 30 Closing date for inpUTS Special Admission Scheme applications

October

- 1-2 Graduation (City)
- 2 Vice-Chancellors' Week (non-teaching) ends
- 5 Labour Day – public holiday
- 12 Public school holidays end
- 16 Examination masters due
- 30 Final examination timetable available
- 30 Closing date for undergraduate applications via UAC (with late fee)

- 30 Closing date for undergraduate applications direct to UTS (without late fee)
- 30 Closing date for most postgraduate courses for Autumn semester 1999 (some courses may have earlier closing dates in September)
- 30 Closing date for Australian Postgraduate Awards, the R L Werner and University Doctoral scholarships

November

- 13 Last teaching day of Spring semester
- 14-30 Formal examination period (and 1-4 December)
- 30 Closing date for Undergraduate applications via UAC (with late fee)

December

- 1-4 Formal examination period (and 14-30 November)
- 4 Spring semester ends
- 14-18 Formal alternative examination period for Spring semester students
- 18 Public school holidays begin
- 21 Release of Spring semester examination results; two days earlier via UniPhone™

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

Note: Information is correct as at 6 November 1997. The University reserves the right to vary any information described in Principal Dates for 1998 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 which 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 strategic objectives is the development of internationalisation, including the welcoming of international students to our programs, the expansion of our student exchange programs, and the continuation of the combined degrees which incorporate a BA in International Studies.

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 advance 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

Location and Contacts

Student Administration Unit

The Student Administration Unit manages the student administration activities of the Faculty and is responsible for a broad range of activities including: admission; enrolment; graduation; timetabling; course information and promotion; and student progression matters. The Unit is committed to providing a high standard of service to students and faculty staff.

Room 557, Level 5, Building 6

702-730 Harris Street, Ultimo

Telephone: (02) 9514 8913

Fax: (02) 9514 8804

Hours: 9.00 a.m. – 5.00 p.m.

Monday – Friday

Note: These hours are extended during the first weeks of each semester.

Address: PO Box 123, Broadway NSW 2007

Email: dab.info@uts.edu.au

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 at 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.

The Institute offers language programs in Cantonese, Chinese, Croatian, French, German, Greek, Indonesian, Italian, Japanese, Korean, Malaysian, Polish, Russian, Slovenian, Spanish, Thai and Ukrainian. The Institute can arrange for the teaching of other language programs depending on availability and demand.

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.

Introductory subjects on the contemporary societies of China, Japan, Latin America, South-East Asia, Hong Kong, Taiwan and Europe. 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.

Further information is available from the Institute for International Studies, UTS, 9-11 Broadway, NSW, telephone: (02) 9514 1574, fax: (02) 9514 1578 and the *1998 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	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 Certificate in Planning	ABxx
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
Combined degrees	
Bachelor of Design in Fashion and Textile/Bachelor of Arts in International Studies	DF02
Bachelor of Design in Interior Design/Bachelor of Arts in International Studies	DT02
Bachelor of Design in Industrial Design/Bachelor of Arts in International Studies	DD02
Bachelor of Design in Visual Communication/Bachelor of Arts in International Studies	DV02
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 Land Economics/Bachelor of Arts in International Studies	AB10

Undergraduate courses

DESIGN

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) a 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 broader 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 Director of Program.

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 and a Weighted Average Mark (WAM) of 55 or greater in that assessment period.

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 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.

Fashion design involves 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

xxxxx Minor study 6cp

xxxxx General study 4cp

Stage 4**Spring semester**

83440 Design Project F&T 4 14cp

xxxxx Minor study 6cp

xxxxx General study 4cp

Stage 5**Autumn semester**

83550 Design Project F&T 5 14cp

xxxxx Minor study 6cp

xxxxx General study 4cp

Stage 6**Spring semester**

83660 Design Project F&T 6 14cp

xxxxx Minor study 6cp

xxxxx 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 designers are concerned with the design and development of products to be produced by the manufacturing industry. Employed by manufacturers or professional design consultants, they are responsible for the visual and tactile qualities of products, their efficiency and cost effectiveness, and the health and safety of the user. Increasingly, they must also take into account issues of environmental sustainability. The course is planned to produce graduates who can adapt successfully to industrial and social change and be capable of providing industry with leadership in design.

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

xxxxx Minor study 6cp

xxxxx General study 4cp

Stage 4

Spring semester

84440	Design Project ID 4	14cp
xxxxx	Minor study	6cp
xxxxx	General study	4cp

Stage 5

Autumn semester

84550	Design Project ID 5	14cp
xxxxx	Minor study	6cp
xxxxx	General study	4cp

Stage 6

Spring semester

84660	Design Project ID 6	14cp
xxxxx	Minor study	6cp
xxxxx	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 also problem-based, combining and utilising information from the academic study fields to produce design problems for students that offer a holistic view of interior design.

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
xxxxx	Minor study	6cp
xxxxx	General study	4cp

Stage 4

Spring semester

86440	Design Project IT 4	14cp
xxxxx	Minor study	6cp
xxxxx	General study	4cp

Stage 5**Autumn semester**

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

Stage 6**Spring semester**

86660	Design Project IT 6	14cp
xxxxx	Minor study	6cp
xxxxx	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

Stage 2**Spring semester**

87220 Design Project VC 2 24cp

Stage 3**Autumn semester**

87330 Design Project VC 3 14cp

xxxxx Minor study 6cp

xxxxx General study 4cp

Stage 4**Spring semester**

87440 Design Project VC 4 14cp

xxxxx Minor study 6cp

xxxxx General study 4cp

Stage 5**Autumn semester**

87550 Design Project VC 5 14cp

xxxxx Minor study 6cp

xxxxx General study 4cp

Stage 6**Spring semester**

87660 Design Project VC 6 14cp

xxxxx Minor study 6cp

xxxxx General study 4cp

Stage 7**Autumn semester**

87770 Design Project VC 7 16cp

87780 Research Dissertation VC 8cp

Stage 8**Spring semester**

87880 Major Project VC 24cp

Minor and General Studies

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

Minor Studies subjects are offered in a range of professional areas including illustration, photography, textile design, jewellery, transportation design, furniture design, 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 1998 will be provided at the time of enrolment. When enrolling, students should carefully check the 1998 offerings and subject numbers as detailed on the separate overlays provided at that time.

ARCHITECTURE

Overview of courses

The Architecture program at UTS offers intellectual and professional education through two distinctive but consecutive and strongly interconnected degree courses. The first tier of this two-tier structure comprises a Bachelor of Arts in Architecture, awarded after successful completion of the first four years of the program, while the second tier comprises 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 Royal Australian Institute of Architects (RAIA) 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.

Please note also that 1998 sees the last of the 'old' Bachelor of Architecture degree. Students

entering (or repeating) subjects in Year 6 in 1998 will enrol in the 'old' Bachelor of Architecture course as normal. Details of the existing Year 6 structure and subject descriptions are provided below in the section 'Bachelor of Architecture' ('old' program).

All students entering Years 1–5 of the course in 1998 will enrol in either the Bachelor of Arts in Architecture program (Years 1–4 inclusive) or the revised Bachelor of Architecture/Master of Architecture program (Year 5), details of which are provided below.

Under the current 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 Year 6 in 1998.

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. In this way a balance is maintained

Option	Award		cp	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
1	BArch	Final 1998	192						co (32)	
2	BA in Arch		144	F/T (48)	co (32)	co (32)	co (32)			
3	BA (Hons) in Arch		174	F/T (48)	co (32)	co (32)	F/T (62)			
4	BA (Hons) in Arch		174	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)

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 for 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 Years 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 and 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 subject 11062 Design 6 is examined by viva voce review.

Bachelor of Architecture (old program)

Course code: AA02

Students entering (or repeating subjects in) Year 6 in 1998 will enrol in the 'old' Bachelor of Architecture program as normal.

Course structure

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

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 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.

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 approximately 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, (either Pass or Honours degree), 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 the BA in Architecture and who wish to undertake the Honours program will be eligible to do so provided that they:

- (1) have recorded no failures at either Years 3 or 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 through 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 failures 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 Elective 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 Director, 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.

- 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.

- 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. Students who have not accrued sufficient points and/or have not had them so approved by the Director of Professional Practice will not be eligible

for enrolment in Year 3 or 4, regardless of having successfully completed the requisite academic program.

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.

Please note that subjects undertaken outside the Architecture program may not exceed six credit points.

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 1998 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 1998:

Year 1

11915	Elective Studies 1: Evolution of Human Settlement	3cp
11915	Elective Studies 1: Life Drawing	3cp
11915	Elective Studies 1: Architecture/Technology/History	3cp

Year 2

11925	Elective Studies 2: Sustainable Architecture 1	3cp
11925	Elective Studies 2: Architectural Computing 2E ¹	3cp
11925	Elective Studies 2: Architectural Photography 1 ¹	3cp

Year 3

11935	Elective Studies 3: Sustainable Architecture 2	3cp
11935	Elective Studies 3: History of Architecture 3E	3cp
11935	Elective Studies 3: Theory and Architecture 3A	3cp
11935	Elective Studies 3: Theory and Architecture 3B ²	3cp

¹ Maximum class size is 25.

² Maximum class size is 15.

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

Elective subjects available in the Faculty in 1998

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, but rather to undertake a special Year 4 Elective Studies program. 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. Please note, however, that students wishing to exercise this option may delete no more than 12 credit points from the Year 4 compulsory program.

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, students completing the final year of their degree, may apply to undertake, as part of their fourth year of study, certain subject strands offered within the newly introduced Bachelor of Architecture course. To do this they would need to take 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 subject to suitable variations.

Any student choosing to undertake the special Year 4 elective would, thereby, not have undertaken certain compulsory Year 4 subjects, and thus would therefore not be permitted to enrol in either the Bachelor of Architecture or in the Master of Architecture program until these subjects had been successfully completed at the requisite level.

Bachelor of Architecture

Course code: AA05

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 the second tier of a professional degree structure, 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 to 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 (either Pass, Honours degree 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**.

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 the NSW and ACT Universities Admissions Centre (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.

Any Year 5 subject other than 11951 Architectural Design and Technology 1 may, at the discretion of the Program Director, 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 subjects have been successfully completed.

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 (parallel program)

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 with First Class Honours or with Second Class Honours Division 1 (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 the second tier of a professional degree structure 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=48cp per year x 2 years = 96cp)
or
2. following completion of the 'normal' Year 5 and 6 subjects (32cp per year x 2 years = 64cp), as one additional year (Year 7) involving a further 32cp (64 + 32 = 96cp).

Total academic credit-point requirement before the 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. Current students completing all requirements for a UTS Bachelor of Architecture degree in 1998 at the requisite level (see point (c)) may undertake the Master's Year 7 program in 1998.

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 by three possible routes. Conditions of entry and course requirements for each are listed below.

(a) 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 and have completed all compulsory subjects.

(b) 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).

(c) 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 failures 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.

BUILDING STUDIES

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 the prescribed 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.

A great deal of the learning occurs through assignment work in which students participate in projects which simulate the conditions of actual practice. Hence students know what roles to expect and learn to exercise the judgment required of a professional.

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

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		
16010	Construction Project 1	8cp
16115	Construction 1	8cp
16201	Drawing and Surveying	4cp
16901	Structures 1	6cp
16407	Building Communications	6cp
16725	Materials Science 1	6cp
16543	Quantities	6cp
16211	Computations, Mathematics and Statistics	6cp
		Total 50cp

Year 2		
16020	Construction Project 2	8cp
16116	Construction 2	8cp
16301	Services 1	6cp
16531	Estimating 1	6cp
16851	Introduction to Law	6cp
16902	Structures 2	6cp
16202	Drawing and Surveying 2	6cp
		Total 46cp

Year 3		
16117	Construction 3	8cp
16030	Construction Project 3	8cp
16302	Services 2	4cp
16726	Materials Science 2	6cp
16808	Construction Law	6cp
16903	Structures 3	6cp
16515	Building Company Performance	6cp
16516	Development Appraisal	4cp
		Total 48cp

Year 4		
16118	Construction 4	8cp
16532	Estimating 2	8cp
16040	Construction Project 4	8cp
	Electives (two of)	8cp
16131	Professional Practice	4cp
16221	Project	12cp
		Total 48cp

Six-year part-time program

Year 1		
16010	Construction Project 1	8cp
16115	Construction 1	8cp
16201	Drawing and Surveying	4cp
16901	Structures 1	6cp
16407	Building Communications	6cp
		Total 32cp

Year 2

16725	Material Science 1	6cp
16543	Quantities	6cp
16116	Construction 2	8cp
16301	Services 1	6cp
16211	Computations, Mathematics and Statistics	6cp
	Total	32cp

Year 3

16020	Construction Project 2	8cp
16531	Estimating 1	6cp
16851	Introduction to Law	6cp
16902	Structures 2	6cp
16202	Drawing and Surveying 2	6cp
	Total	32cp

Year 4

16117	Construction 3	8cp
16030	Construction Project 3	8cp
16302	Services 2	4cp
16726	Materials Science 2	6cp
16808	Construction Law	6cp
	Total	32cp

Year 5

16118	Construction 4	8cp
16532	Estimating 2	8cp
16903	Structures 3	6cp
16515	Building Company Performance	6cp
16516	Development Appraisal	4cp
	Total	32cp

Year 6

16040	Construction Project 4	8cp
xxxxx	Electives (two of)	8cp
16131	Professional Practice	4cp
16221	Project	12cp
	Total	32cp

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

Under the provisions of the *Valuers Registration Act*, valuers are required to be registered. Full details can be obtained from the Department of Fair Trading.

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 (three years) approved industrial experience, comprising nominally four 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 (one 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 1–4 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 can be completed in part by distance learning.

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 an 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 reciprocity agreements.

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

COMBINED DEGREES

Bachelor of Design in Fashion and Textile Design/Bachelor of Arts in International Studies

Course code: DF02

Fashion and textile design is concerned with the design of fashion clothing, surface and textiles, their related fields and technologies.

The aim of the combined degree in Fashion and Textile Design and International Studies is to produce graduates who have developed perspectives and understandings that will enable them to meet the professional demands of an internationalised marketplace.

The Bachelor of Design in Fashion and Textile Design/Bachelor of Arts in International Studies is a six-year degree in which the study of Fashion and Textile Design is integrated with a major in the language and culture of another country. Students spend the fourth year of study at a university overseas. All arrangements in force for both the Bachelor of Design and the BA in International Studies apply equally to the combined degree program in Design and International Studies.

The combined degree program in Fashion and Textile Design and International Studies provides students with additional practical skills, in particular those that make them aware of the international contexts of fashion and textile design by providing the opportunity to acquire knowledge and understanding of a language and culture other than English.

Course structure

The Bachelor of Design in Fashion and Textile Design curriculum is based on a problem-solving approach and self-directed learning. Students take a common first semester of multidisciplinary study. Fashion and Textile Design studies 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. All students are required to gain practical experience in professional design practice to augment and complement their academic studies.

The Bachelor of Arts in International Studies requires undergraduates to study a major – a region or country specialisation – over a

minimum of three years. In Sydney, students study language and culture for at least two years, followed by a period of study overseas. The following range of majors is available: Argentina, Australia and the Asia-Pacific Region, Chile, China, Croatia, France, Germany, Greece, Indonesia, Italy, Japan, Latin America, Malaysia, Mexico, Poland, Russia, Slovenia, South China, South-East Asia, Spain, Taiwan, Thailand and Ukraine. The Greece, Poland, Slovenia and Ukraine specialisations are only available to students with a sound working knowledge of the language of their selected specialisation.

Each of the specialisations within the International Studies program is 96 credit points, and includes 32 credit points (four subjects) of instruction in Language and Culture; 16 credit points (two subjects) of study of contemporary society; and 48 credit points (two semesters) of study at a university or institution of higher education in the country or region of specialisation.

Those who have not previously studied a language and culture other than English are as able to complete this program, as those who have.

Arrangements for In-country Study

All students are required to complete four consecutive semesters of study of Language and Culture before proceeding to In-country Study. There are different classes available for students according to their level of language proficiency.

The Institute for International Studies makes arrangements for students to spend two semesters of In-country Study at an institution of higher education in a country of their major. The costs of tuition in host institutions overseas and travel between Sydney and the designated host institutions are borne by UTS except in cases where a scholarship has been awarded to the student with provision for these costs. Under those circumstances, the funds that would have otherwise been allocated towards the student's tuition and travel will be redirected to support the In-country Study program in general. In most cases, the cost of living for the period of In-country Study will not exceed the cost of living away from home in Sydney. However, students should be aware

that the cost of living in some countries – notably Argentina, France, Germany, Hong Kong, Japan and Taiwan – may be higher than in Sydney.

Course program

Year 1

Stage 1

85000 Design 1 24cp

Stage 2

83220 Design Project Fashion and Textiles 2 24cp

Year 2

Stage 3

xxxxx Minor Study 6cp
 xxxxx General Study 4cp
 971xxx Language and Culture 1 8cp
 50140 Modernisation and Social Change 8cp

Stage 4

xxxxx Minor Study 6cp
 xxxxx General Study 4cp
 972xxx Language and Culture 2 8cp
 976xxx Contemporary Society 8cp

Year 3

Stage 5

83330 Design Project Fashion and Textiles 3 14cp
 973xxx Language and Culture 3 8cp

Stage 6

83440 Design Project Fashion and Textiles 4 14cp
 974xxx Language and Culture 4 8cp

Year 4

Stage 7

977xxx In-country Study 1 24cp

Stage 8

978xxx In-country Study 2 24cp

Year 5

Stage 9

83550 Design Project Fashion and Textiles 5 14cp
 xxxxx Minor Study 6cp
 xxxxx General Study 4cp

Stage 10

83660 Design Project Fashion and Textiles 6 14cp
 xxxxx Minor Study 6cp
 xxxxx General Study 4cp

Year 6

Stage 11

83770 Design Project Fashion and Textiles 7 16cp
 83780 Research Dissertation F&T 8cp

Stage 12

83880 Major Project Fashion and Textiles 24cp

Further details of International Studies subjects may be found in the *Institute for International Studies Handbook*. Queries regarding the International Studies component of the course should be addressed to the Institute itself on 9514 1574.

Combined degree students are required to confirm, during the University enrolment period, the subjects they intend to take for the year with the Institute at 9-11 Broadway (next door to the Co-op Bookshop).

Bachelor of Design in Interior Design/Bachelor of Arts in International Studies

Course code: DT02

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.

The aim of the combined degree in Interior Design and International Studies is to produce graduates who have developed perspectives and understandings that will enable them to meet the professional demands of an internationalised marketplace.

The Bachelor of Design in Interior Design/ Bachelor of Arts in International Studies is a six-year degree in which the study of Interior Design is integrated with a major in the language and culture of another country. Students spend the fourth year of study at a university overseas. All arrangements in force for both the Bachelor of Design and the BA in International Studies apply equally to the combined degree program in Design and International Studies.

The combined degree program in Interior Design and International Studies provides students with additional practical skills, in particular those that make them aware of the international contexts of Interior Design by providing the opportunity to acquire knowledge and understanding of a language and culture other than English.

Course structure

The Bachelor of Design in Interior Design curriculum is based on a problem-solving approach and self-directed learning. Students take a common first semester of multidisciplinary study. Interior Design studies commence in the second semester. All students are required to gain practical experience in professional design practice to augment and complement their academic studies.

The Bachelor of Arts in International Studies requires undergraduates to study a major – a region or country specialisation – over a minimum of three years. In Sydney, students study language and culture for at least two years, followed by a period of study overseas. The following range of majors is available: Argentina, Australia and the Asia-Pacific Region, Chile, China, Croatia, France, Germany, Greece, Indonesia, Italy, Japan, Latin America, Malaysia, Mexico, Poland, Russia, Slovenia, South China, South-East Asia, Spain, Taiwan, Thailand and Ukraine. The Greece, Poland, Slovenia and Ukraine specialisations are only available to students with a sound working knowledge of the language of their selected specialisation.

Each of the specialisations within the International Studies program is 96 credit points, and includes 32 credit points (four subjects) of instruction in Language and Culture; 16 credit points (two subjects) of study of contemporary society; and 48 credit points (two semesters) of study at a university or institution of higher education in the country or region of specialisation.

Those who have not previously studied a language and culture other than English are as able to complete this program, as those who have.

Arrangements for In-country Study

All students are required to complete four consecutive semesters of study of Language and Culture before proceeding to In-country Study. There are different classes available for students according to their level of language proficiency.

The Institute for International Studies makes arrangements for students to spend two semesters of In-country Study at an institution of higher education in a country of their major. The costs of tuition in host institutions overseas and travel between Sydney and the designated host institutions are borne by UTS except in cases where a scholarship has been awarded to the student with provision for these costs. Under those circumstances, the funds that would have otherwise been allocated towards the student's tuition and travel will be redirected to support the In-country Study program in general. In most cases, the cost of living for the period of In-country Study will not exceed the cost of living away from home in Sydney. However, students should be aware that the cost of living in some countries – notably Argentina, France, Germany, Hong Kong, Japan and Taiwan – may be higher than in Sydney.

Course program

Year 1

Stage 1

85000	Design 1	24cp
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Stage 2

86220	Design Project Interior Design (IT) 2	24cp
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Year 2

Stage 3

xxxxx	Minor Study	6cp
xxxxx	General Study	4cp
971xxx	Language and Culture 1	8cp
50140	Modernisation and Social Change	8cp

Stage 4

xxxxx	Minor Study	6cp
xxxxx	General Study	4cp
972xxx	Language and Culture 2	8cp
976xxx	Contemporary Society	8cp

Year 3

Stage 5

86330	Design Project IT 3	14cp
973xxx	Language and Culture 3	8cp

Stage 6

86440	Design Project IT 4	14cp
974xxx	Language and Culture 4	8cp

Year 4

Stage 7

977xxx	In-country Study 1	24cp
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Stage 8

978xxx	In-country Study 2	24cp
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Year 5

Stage 9

86550	Design Project IT 5	14cp
xxxxx	Minor Study	6cp
xxxxx	General Study	4cp

Stage 10

86660	Design Project IT 6	14cp
xxxxx	Minor Study	6cp
xxxxx	General Study	4cp

Year 6

Stage 11

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

Stage 12

86880	Major Project IT	24cp
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Further details of International Studies subjects may be found in the *Institute for International Studies Handbook*. Queries regarding the International Studies component of the course should be addressed to the Institute itself on 9514 1574.

Combined degree students are required to confirm, during the University enrolment period, the subjects they intend to take for the year with the Institute at 9-11 Broadway (next door to the Co-op Bookshop).

Bachelor of Design in Industrial Design/ Bachelor of Arts in International Studies

Course code: DD02

Industrial design is concerned with the design of products for the manufacturing industry. The industrial designer works with manufacturers and has the 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 aim of the combined degree in Industrial Design and International Studies is to produce graduates who have developed perspectives and understandings that will enable them to meet the professional demands of an internationalised marketplace.

The Bachelor of Design in Industrial Design and Bachelor of Arts in International Studies is a six-year degree in which the study of Industrial Design is integrated with a major in the language and culture of another country. Students spend the fourth year of study at a university overseas. All arrangements in force for both the Bachelor of Design and the BA in International Studies apply equally to the combined degree program in Design and International Studies.

The combined degree program in Industrial Design and International Studies provides students with additional practical skills, in particular those that make them aware of the international contexts of Industrial Design by providing the opportunity to acquire knowledge and understanding of a language and culture other than English.

Course structure

The Bachelor of Design in Industrial Design curriculum is based on a problem-solving approach and self-directed learning. Students take a common first semester of multidisciplinary study. Industrial Design studies commence in the second semester. All students are required to gain practical experience in professional design practice to augment and complement their academic studies.

The Bachelor of Arts in International Studies requires undergraduates to study a major – a region or country specialisation – over a minimum of three years. In Sydney, students

study language and culture for at least two years, followed by a period of study overseas. The following range of majors is available: Argentina, Australia and the Asia-Pacific Region, Chile, China, Croatia, France, Germany, Greece, Indonesia, Italy, Japan, Latin America, Malaysia, Mexico, Poland, Russia, Slovenia, South China, South-East Asia, Spain, Taiwan, Thailand and Ukraine. The Greece, Poland, Slovenia and Ukraine specialisations are only available to students with a sound working knowledge of the language of their selected specialisation.

Each of the specialisations within the International Studies program is 96 credit points, and includes 32 credit points (four subjects) of instruction in Language and Culture; 16 credit points (two subjects) of study of contemporary society; and 48 credit points (two semesters) of study at a university or institution of higher education in the country or region of specialisation.

Those who have not previously studied a language and culture other than English are as able to complete this program, as those who have.

Arrangements for In-country Study

All students are required to complete four consecutive semesters of study of Language and Culture before proceeding to In-country Study. There are different classes available for students according to their level of language proficiency.

The Institute for International Studies makes arrangements for students to spend two semesters of In-country Study at an institution of higher education in a country of their major. The costs of tuition in host institutions overseas and travel between Sydney and the designated host institutions are borne by UTS except in cases where a scholarship has been awarded to the student with provision for these costs. Under those circumstances, the funds that would have otherwise been allocated towards the student's tuition and travel will be redirected to support the In-country Study program in general. In most cases, the cost of living for the period of In-country Study will not exceed the cost of living away from home in Sydney. However, students should be aware that the cost of living in some countries – notably Argentina, France, Germany, Hong Kong, Japan and Taiwan – may be higher than in Sydney.

Course program

Year 1

Stage 1

85000 Design 1 24cp

Stage 2

84220 Design Project Industrial Design (ID) 2 24cp

Year 2

Stage 3

xxxxx Minor Study 6cp

xxxxx General Study 4cp

971xxx Language and Culture 1 8cp

59341 Modernisation and Social Change 8cp

Stage 4

xxxxx Minor Study 6cp

xxxxx General Study 4cp

972xxx Language and Culture 2 8cp

976xxx Contemporary Society 8cp

Year 3

Stage 5

84330 Design Project ID 3 14cp

973xxx Language and Culture 3 8cp

Stage 6

84440 Design Project ID 4 14cp

974xxx Language and Culture 4 8cp

Year 4

Stage 7

977xxx In-country Study 1 24cp

Stage 8

978xxx In-country Study 2 24cp

Year 5

Stage 9

84550 Design Project ID 5 14cp

xxxxx Minor Study 6cp

xxxxx General Study 4cp

Stage 10

84660 Design Project ID 6 14cp

xxxxx Minor Study 6cp

xxxxx General Study 4cp

Year 6

Stage 11

84770	Design Project ID 7	16cp
84780	Research Dissertation ID	8cp

Stage 12

84880	Major Project ID	24cp
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Further details of International Studies subjects may be found in the *Institute for International Studies Handbook*. Queries regarding the International Studies component of the course should be addressed to the Institute itself on 9514 1574.

Combined degree students are required to confirm, during the University enrolment period, the subjects they intend to take for the year with the Institute at 9-11 Broadway (next door to the Co-op Bookshop).

Bachelor of Design in Visual Communication/ Bachelor of Arts in International Studies

Course code: DV02

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 aim of the combined degree in Visual Communication and International Studies is to produce graduates who have developed perspectives and understandings that will enable them to meet the professional demands of an internationalised marketplace.

The Bachelor of Design in Visual Communication/Bachelor of Arts in International Studies is a six-year degree in which the study of Visual Communication is integrated with a major in the language and culture of another country. Students spend the fourth year of study at a university overseas.

All arrangements in force for both the Bachelor of Design and the BA in International Studies apply equally to the combined degree program in Design and International Studies.

The combined degree program in Visual Communication and International Studies provides students with additional practical skills, in particular those that make them aware of the international contexts of Visual Communication by providing the opportunity to acquire knowledge and understanding of a language and culture other than English.

Course structure

The Bachelor of Design in Visual Communication curriculum is based on a problem-solving approach and self-directed learning. Students take a common first semester of multidisciplinary study. Visual Communication studies commence in the second semester and integral to the course is an understanding of the way the design process is mediated by the contemporary sociopolitical framework within which it occurs. All students are required to gain practical experience in professional design practice to augment and complement their academic studies.

The Bachelor of Arts in International Studies requires undergraduates to study a major – a region or country specialisation – over a minimum of three years. In Sydney, students study language and culture for at least two years, followed by a period of study overseas. The following range of majors is available: Argentina, Australia and the Asia-Pacific Region, Chile, China, Croatia, France, Germany, Greece, Indonesia, Italy, Japan, Latin America, Malaysia, Mexico, Poland, Russia, Slovenia, South China, South-East Asia, Spain, Taiwan, Thailand and Ukraine. The Greece, Poland, Slovenia and Ukraine specialisations are only available to students with a sound working knowledge of the language of their selected specialisation.

Each of the specialisations within the International Studies program is 96 credit points, and includes 32 credit points (four subjects) of instruction in Language and Culture; 16 credit points (two subjects) of study of contemporary society; and 48 credit points (two semesters) of study at a university or institution of higher education in the country or region of specialisation.

Those who have not previously studied a language and culture other than English are as able to complete this program, as those who have.

Arrangements for In-country Study

All students are required to complete four consecutive semesters of study of Language and Culture before proceeding to In-country Study. There are different classes available for students according to their level of language proficiency.

The Institute for International Studies makes arrangements for students to spend two semesters of In-country Study at an institution of higher education in a country of their major. The costs of tuition in host institutions overseas and travel between Sydney and the designated host institutions are borne by UTS except in cases where a scholarship has been awarded to the student with provision for these costs. Under those circumstances, the funds that would have otherwise been allocated towards the student's tuition and travel will be redirected to support the In-country Study program in general. In most cases, the cost of living for the period of In-country Study will not exceed the cost of living away from home in Sydney. However, students should be aware that the cost of living in some countries – notably Argentina, France, Germany, Hong Kong, Japan and Taiwan – may be higher than in Sydney.

Course program

Year 1

Stage 1

85000 Design 1 24cp

Stage 2

87220 Design Project Visual
Communication (VC) 2 24cp

Year 2

Stage 3

xxxxx Minor Study 6cp
xxxxx General Study 4cp
971xxx Language and Culture 1 8cp
59341 Modernisation and Social Change 8cp

Stage 4

xxxxx Minor Study 6cp
xxxxx General Study 4cp
972xxx Language and Culture 2 8cp
976xxx Contemporary Society 8cp

Year 3

Stage 5

87330 Design Project VC 3 14cp
973xxx Language and Culture 3 8cp

Stage 6

87440 Design Project VC 4 14cp
974xxx Language and Culture 4 8cp

Year 4

Stage 7

977xxx In-country Study 1 24cp

Stage 8

978xxx In-country Study 2 24cp

Year 5

Stage 9

87550 Design Project VC 5 14cp
xxxxx Minor Study 6cp
xxxxx General Study 4cp

Stage 10

37660 Design Project VC 6 14cp
xxxxx Minor Study 6cp
xxxxx General Study 4cp

Year 6

Stage 11

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

Stage 12

87880 Major Project VC 24cp

Further details of International Studies subjects may be found in the *Institute for International Studies Handbook*. Queries regarding the International Studies component of the course should be addressed to the Institute itself on 9514 1574.

Combined degree students are required to confirm, during the University enrolment period, the subjects they intend to take for the year with the Institute at 9-11 Broadway (next door to the Co-op Bookshop).

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

Course code: AB08

The Bachelor of Building in Construction Economics and Bachelor of Arts in International Studies is a six-year degree program combining the Bachelor of Building in Construction Economics program with the University's Bachelor of Arts in International Studies.

The Construction Economics degree program 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 throughout the design, construction and deployment phases. The aim of the combined degree is to provide graduates not only with those skills, but also the ability to deal with other languages and cultures, both within Australia and internationally.

Course structure

Students are required to undertake periods of approved industrial training. The degree may be conferred with First or Second Class Honours for meritorious performance.

Construction Economics covers all the important areas within the discipline and has a clear economic bias. A range of topics are dealt with including quantity surveying, economics, law, design, computing, management, materials science, estimating, construction and services.

The construction subjects are a core element of the course and are undertaken in conjunction with the Construction Management program. Students are required to undertake practical studies as part of these subjects which typically involve field work or simulated office practice.

The Bachelor of Arts in International Studies requires undergraduates to study a major – a region or country of specialisation – over a minimum of three years. In Sydney students study Language and Culture for at least two years, followed by a period of study overseas.

The following majors are available: Argentina, Australia and the Asia-Pacific Region, Chile, China, Croatia, France, Germany, Greece, Indonesia, Italy, Japan, Latin America, Malaysia, Mexico, Poland, Russia, Slovenia, South China, South-East Asia, Spain, Taiwan, Thailand and Ukraine. The Greece, Poland, Slovenia and Ukraine specialisations are only available to students with a sound working knowledge of the language of their selected specialisation.

Australia and the Asia-Pacific Region is available as a major to international students.

Each of the specialisations within the International Studies program is 96 credit points, and includes 32 credit points (four subjects) of instruction in Language and Culture; 8 credit points of study of Modernisation and Social Change; 8 credit points of study of Contemporary Society; and 48 credit points (two semesters) of study at an institution of higher education in a country of the major.

Those who have not previously studied a language and culture other than English are as able to complete this program as those who have.

Arrangements for In-country Study

All students are required to complete four consecutive semesters of study of Language and Culture before proceeding to In-country Study. There are different classes available for students according to their level of language proficiency.

The Institute for International Studies makes arrangements for students to spend two semesters of In-country Study at an institution of higher education in the country of their major. The costs of tuition in host institutions overseas and travel between Sydney and the designated host institutions are borne by UTS except in cases where a scholarship has been awarded to the student with provision for these costs. Under those circumstances, the funds that would have otherwise been allocated towards the student's tuition and travel will be redirected to support the In-country Study program in general. In most cases the cost of living for the period of In-country Study will not exceed the cost of living away from home in Sydney. However, students should be aware that the cost of living in some countries – notably Argentina, France, Germany, Hong Kong, Japan and Taiwan – may be higher than in Sydney.

Course program

Year 1

16001	Preparatory Studies	8cp
16115	Construction 1	8cp
16721	Materials Science	8cp
50140	Modernisation and Social Change (Autumn semester)	8cp
976xx	Contemporary Society (Spring semester)	8cp
16621	Design Evaluation	8cp

Year 2

16161	Statistics	8cp
16116	Construction 2	8cp
971xxx	Language and Culture 1 (Autumn semester)	8cp
972xxx	Language and Culture 2 (Spring semester)	8cp
16501	Quantity Surveying 1	8cp
16622	Environmental Planning	8cp

Year 3

16502	Quantity Surveying 2	8cp
16805	Legal Studies 1	8cp
xxxxx	Estimating	8cp
973xxx	Language and Culture 3 (Autumn semester)	8cp
974xxx	Language and Culture 4 (Spring semester)	8cp
16310	Engineering Services	8cp

Year 4

977xxx	In-country Study 1 (Autumn semester)	24cp
978xxx	In-country Study 2 (Spring semester)	24cp

Year 5

16521	Cost Planning and Modelling	8cp
16117	Construction 3	8cp
16806	Legal Studies 2	8cp
16534	Project Planning and Risk	8cp
16522	Economic Development	8cp
16503	Quantity Surveying 3	8cp

Year 6

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

*Final Year Alternative

16224	Quantity Surveying Project	12cp
xxxxx	Elective	4cp

Further details of Construction Economics subjects may be found in the *Faculty of Design,*

Architecture and Building Handbook. Queries regarding the International Studies component of the course should be addressed to the Institute itself on 9514 1574.

Combined degree students are required to confirm, during the University enrolment period, the subjects they intend to take for the year with the Institute at 9-11 Broadway (next door to the Co-op Bookshop).

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

Course code: AB09

The Bachelor of Building in Construction Management/Bachelor of Arts in International Studies is a six-year degree program in which Construction Management studies are combined with International Studies. The Building graduate is concerned with management of construction and building projects. Extensive technological skills are required alongside the capacity to manage people, materials, equipment and plant in order to carry out this task as effectively as possible. The aim of the combined degree in Construction Management and International Studies is to produce graduates who have not only those skills but also developed perspectives and understandings that will enable them to meet the demands of an internationalised professional environment.

The combined degree program in Building in Construction Management and International Studies provides students specialising in Construction Management with additional practical skills by providing the opportunity to acquire knowledge and understanding of a language and culture other than English.

Course structure

To graduate a student is required to have completed 288 credit points: 192 credit points in Construction Management; and 96 credit points in International Studies. Students are also required to undertake periods of approved industrial training. The degree may be conferred with First or Second Class Honours for meritorious performance.

Construction Management concerns the management of the construction stage of

building projects on time, within estimated cost targets and to the level of quality established in the contract documents, and fulfilling the needs of the community. The course focuses on resource and site management but also covers areas such as materials, structures, services, estimating, law, economics and construction technology.

Students are required to undertake practical studies as part of these subjects which typically involve field work or simulated office practice.

The Bachelor of Arts in International Studies requires undergraduates to study a major – a region or country of specialisation – over a minimum of three years. In Sydney students study Language and Culture for at least two years, followed by a period of study overseas.

The following majors are available: Argentina, Australia and the Asia-Pacific Region, Chile, China, Croatia, France, Germany, Greece, Indonesia, Italy, Japan, Latin America, Malaysia, Mexico, Poland, Russia, Slovenia, South China, South-East Asia, Spain, Taiwan, Thailand and Ukraine. The Greece, Poland, Slovenia and Ukraine specialisations are only available to students with a sound working knowledge of the language of their selected specialisation.

Australia and the Asia-Pacific Region is available as a major to international students.

Each of the specialisations within the International Studies program is 96 credit points, and includes 32 credit points (four subjects) of instruction in Language and Culture; 16 credit points (two subjects) of study of Contemporary Society; and 48 credit points (two semesters) of study at a university or institution of higher education in the culture of specialisation.

Those who have not previously studied a language and culture other than English are as able to complete this program as those who have.

Arrangements for In-country Study

All students are required to complete four consecutive semesters of study of Language and Culture before proceeding to In-country Study. There are different classes available for students according to their level of language proficiency.

The Institute for International Studies makes arrangements for students to spend two semesters of In-country Study at an institution of higher education in a country of their major.

The costs of tuition in host institutions overseas and travel between Sydney and the designated host institutions are borne by UTS except in cases where a scholarship has been awarded to the student with provision for these costs. Under those circumstances, the funds that would have otherwise been allocated towards the student's tuition and travel will be redirected to support the In-country Study program in general. In most cases the cost of living for the period of In-country Study will not exceed the cost of living away from home in Sydney. However, students should be aware that the cost of living in some countries – notably Argentina, France, Germany, Hong Kong, Japan and Taiwan – may be higher than in Sydney.

Course program

Year 1

16201	Drawing and Surveying 1	4cp
16111	Construction 1	8cp
16101	Construction Project 1	8cp
16901	Structures 1	6cp
16407	Building Communications	6cp
50140	Modernisation and Social Change (Autumn semester)	8cp
976xxx	Contemporary Society (Spring semester)	8cp

Year 2

16211	Computations	6cp
16112	Construction 2	8cp
16543	Quantities	6cp
16301	Services 1	6cp
971xxx	Language and Culture 1	8cp
972xxx	Language and Culture 2	8cp
16725	Materials Science 1	6cp

Year 3

16202	Drawing and Surveying 2	6cp
16020	Construction Project 2	8cp
16902	Structures 2	6cp
16807	Introduction to Law	6cp
16531	Estimating 1	6cp
973xxx	Language and Culture 3	8cp
974xxx	Language and Culture 4	8cp

Year 4

977xxx	In-country Study 1 (Autumn semester)	24cp
978xxx	In-country Study 2 (Spring semester)	24cp

Year 5

16515	Building Company Performance	6cp
16516	Development Appraisal	4cp
16726	Materials Science 2	6cp

16903	Structures 3	6cp
16030	Construction Project 3	8cp
16113	Construction 3	8cp
16302	Services 2	4cp
16808	Construction Law	6cp

Year 6

16040	Construction Project 4	8cp
16131	Professional Practice	4cp
16621	Graduating Project	12cp
16114	Construction 4	8cp
xxxxx	Elective(s)	8cp
16532	Estimating 2	8cp

Further details of Construction Management subjects may be found in the *Faculty of Design, Architecture and Building Handbook*. Queries regarding the International Studies component of the course should be addressed to the Institute itself on 9514 1574.

Combined degree students are required to confirm, during the University enrolment period, the subjects they intend to take for the year with the Institute at 9-11 Broadway (next door to the Co-op Bookshop).

Bachelor of Land Economics/Bachelor of Arts in International Studies

Course code: AB10

The Bachelor of Land Economics/Bachelor of Arts in International Studies is a six-year degree which aims to produce broadly educated graduates prepared for careers in the property industry, and to equip students with an understanding of the legalities, principles and processes required in those professional careers. The combined degree program in Land Economics and International Studies will provide graduates not only with the necessary skills in those areas of expertise, but also develop perspectives and understandings that will enable them to meet the demands of an internationalised professional environment.

The course leads to award of a Bachelor of Land Economics degree that is granted with Honours where a high standard has been achieved. The degree, as awarded by UTS, is the professionally accepted qualification for employment as a land economist, valuer and real estate agent, on-site residential property manager, business agent and stock and station agent.

The combined degree program in Land Economics and International Studies provides students specialising in Land Economics with additional practical skills by providing the opportunity to acquire knowledge and understanding of a language and culture other than English.

Course structure

To graduate a student is required to have completed 264 credit points: 168 credit points in Land Economics; and 96 credit points in International Studies.

The Bachelor of Arts in International Studies requires undergraduates to study a major – a region or country specialisation – over a minimum of three years. In Sydney students study Language and Culture for at least two years, followed by a period of study overseas. The following range of majors is available: Argentina, Australia and the Asia-Pacific Region, Chile, China, Croatia, France, Germany, Greece, Indonesia, Italy, Japan, Latin America, Malaysia, Mexico, Poland, Russia, Slovenia, South China, South-East Asia, Spain, Taiwan, Thailand and Ukraine. The Greece, Poland, Slovenia and Ukraine specialisations are only available to students with a sound working knowledge of the language of their selected specialisation.

Australia and the Asia-Pacific Region is available as a major to international students.

Each of the specialisations within the International Studies program is 96 credit points, and includes 32 credit points (four subjects) of instruction in Language and Culture; 16 credit points (two subjects) of study of Contemporary Society; and 48 credit points (two semesters) of study at a university or institution of higher education in the culture of specialisation.

Those who have not previously studied a language and culture other than English are as able to complete this program as those who have.

Arrangements for In-country Study

All students are required to complete four consecutive semesters of study of Language and Culture before proceeding to In-country Study. There are different classes available for students according to their level of language proficiency.

The Institute for International Studies makes arrangements for students to spend two

semesters of In-country Study at an institution of higher education in a country of their major. The costs of tuition in host institutions overseas and travel between Sydney and the designated host institutions are borne by UTS except in cases where a scholarship has been awarded to the student with provision for these costs. Under those circumstances, the funds that would have otherwise been allocated towards the student's tuition and travel will be redirected to support the In-country Study program in general. In most cases the cost of living for the period of In-country Study will not exceed the cost of living away from home in Sydney. However, students should be aware that the cost of living in some countries – notably Argentina, France, Germany, Hong Kong, Japan and Taiwan – may be higher than in Sydney.

Course program

Year 1

16163	Appraisal and Statistics	8cp
16150	Land Studies 1	8cp
16351	Introduction to Valuation	6cp
16361	Real Estate 1	6cp
50140	Modernisation and Social Change (Autumn semester)	8cp
976xxx	Contemporary Society (Spring semester)	8cp

Year 2

16551	Economics	8cp
16352	Valuation Methodology	8cp
16552	Financial and Trust Accounting	6cp
16851	Introduction to Law	6cp
16652	Environmental Design	4cp
16998	Land Economics experience	
971xxx	Language and Culture 1	8cp
972xxx	Language and Culture 2	8cp

Year 3

16152	Land Studies 2	4cp
16153	Building Technology	6cp
16354	Rural Valuation	6cp
16553	Finance and Investment Analysis	8cp
16854	Real Estate Law	4cp
16651	Urban Planning	4cp
16998	Land Economics Experience	
973xxx	Language and Culture 3	8cp

974xxx	Language and Culture 4	8cp
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Year 4

977xxx	In-country Study 1	24cp
978xxx	In-country Study 2	24cp

Year 5

16155	Facility Evaluation	4cp
16355	Specialised Valuation Topics	8cp
16454	Investment and Portfolio Management	4cp
16453	Development Management and Maintenance	4cp
16456	Real Estate 2	8cp
16554	Urban Economics	8cp
16853	Planning and Environmental Law	4cp
16997	Land Economics Experience	

Year 6

16353	Advanced Valuation Methods	8cp
16751	International Real Estate Investment	6cp
16356	Statutory Valuation and Litigation	4cp
16452	Land Studies 3	4cp
16455	Real Estate 3	4cp
16961	Project	10cp
16997	Land Economics Experience	

Further details of Land Economics subjects may be found in the *Faculty of Design, Architecture and Building Handbook*. Queries regarding the International Studies component of the course should be addressed to the Institute itself on 9514 1574.

Combined degree students are required to confirm, during the University enrolment period, the subjects they intend to take for the year with the Institute at 9-11 Broadway (next door to the Co-op Bookshop).

Postgraduate courses

DESIGN

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 skills 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 value to those who may not be teachers and do not have previous academic qualifications, yet have an interest in the methods and application of the processes of professional design practice.

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 ¹	4cp
89912	Design Case Studies ¹	4cp
89914	Design Practice ¹	4cp

Spring semester

89920	Design and Technology ²	4cp
89013	Design Case Studies ²	4cp
89012	Design Practice ²	4cp

¹ Core subject.

² Alternative core subject.

Electives

The remaining eight credit points can be achieved by choosing from the following elective postgraduate subjects:

81020	Management Techniques	4cp
81920	Marketing and Design	4cp
81025	Design History	4cp
82902	Sociology of Design	4cp
82009	Human Factors and Design	4cp
82916	Photography for Designers	4cp
82016	Graphic Visualisation	4cp

Basic computer elective subjects

81923	Introduction to Design Computing	4cp
81022	Desktop Publishing	4cp
81024	Computer Graphics 1	4cp
81924	Computer Graphics 2	4cp
81031	Internet Design 1	4cp
81922	Computer Aided Design	4cp

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 part-time study. Sixteen credit points must be achieved from the core subjects. The remaining 32 credit points must be achieved from recommended and elective subjects.

Course structure

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

Autumn semester

89912	Design Case Studies 1	4cp
89914	Design Practice 1	4cp

Spring semester

89013	Design Case Studies 2	4cp
89012	Design Practice 2	4cp

12 credit points may be achieved from the following recommended subjects:

81020	Management Techniques	4cp
81920	Marketing and Design	4cp
81025	Design History	4cp

Electives

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

82902	Sociology of Design	4cp
82009	Human Factors and Design	4cp
82916	Photography for Designers	4cp
82016	Graphic Visualisation	4cp

Basic computer elective subjects

81923	Introduction to Design Computing	4cp
81022	Desktop Publishing	4cp
81024	Computer Graphics 1	4cp
81924	Computer Graphics 2	4cp
81031	Internet Design 1	4cp
81922	Computer Aided Design	4cp

Advanced computer elective subjects

81032	Internet Design 2	4cp
81840	Advanced CAD	4cp
81925	Computer Animation 1	4cp
81030	Computer Animation 2	4cp
81033	Multimedia 1	4cp
81034	Multimedia 2	4cp
81035	Digital Print Media 1	4cp
81036	Digital Print Media 2	4cp

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

This course provides practising graduates of design with an opportunity to achieve a Master's degree by a combination of coursework and project work. Coursework areas include the management and marketing of design, the technological and social implications of design, design decision-making, design research methods, computer-aided design and the history of design.

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 accepted for admission to the Master of Design (by coursework) an applicant would normally be required to possess a recognised four-year degree (or equivalent) in an appropriate area of design, and have completed not less than two years of appropriate professional experience since graduation.

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

Requirements

To qualify for the Master of Design (by coursework) a student must achieve 72 credit points in not fewer than three semesters of study. Twenty-four credit points must be achieved from the 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.

Each student is assisted by the Director of Postgraduate Design Programs to develop a pattern of study best suited to their needs, made up of coursework and project work.

Course structure

Core studies

Students must complete core subjects to the value of 24 credit points.

82901	Psychology of Design	4cp
82903	Technological Change	4cp
82905	Research Methods	4cp
82917	Information Retrieval	4cp
82918	Design Ethics	4cp
82919	Sustainable Design	4cp

Project

Design Project is a program of an individual supervised research and/or design activity undertaken by each student, leading to the submission for assessment of an original body of work. A design project normally consists of four elements or phases – research, development, evaluation, and report.

Students must complete the project 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

12 credit points may be achieved from the following recommended subjects:

81020	Marketing Techniques	4cp
81920	Marketing and Design	4cp
81025	Design History	4cp

The remaining 12 credit points can be achieved from elective postgraduate subjects:

Elective subjects

82902	Sociology of Design	4cp
82009	Human Factors and Design	4cp

Computer elective subjects

81024	Computer Graphics 1	4cp
81924	Computer Graphics 2	4cp
81031	Internet Design 1	4cp
81922	Computer Aided Design	4cp

Advanced computer elective subjects

81032	Internet Design 2	4cp
81840	Advanced CAD	4cp
81925	Computer Animation 1	4cp
81030	Computer Animation 2	4cp
81033	Multimedia 1	4cp
81034	Multimedia 2	4cp
81035	Digital Print Media 1	4cp
81036	Digital Print Media 2	4cp

ARCHITECTURE

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 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, through 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' through 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

BUILDING STUDIES

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 or 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, in order 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 qualifications which demonstrate 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
xxxxx	Heritage and Development	4cp
xxxxx	Heritage and Development	6cp
xxxxx	Native Title	
xxxxx	Elective(s)	maximum 12cp

¹ Subjects offered by 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, through 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 critical roles 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 2 is to be offered in 1998.

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.

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 not be run in 1998, but will be offered in 1999.

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

Graduate Certificate in Planning

Course code: ABxx

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 Certificate in Planning is offered as a one-year, part-time terminating course, articulating into the second year of the Graduate Diploma in Planning.

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 1A, 1B, 2A and 2B. 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 Certificate in Planning requires the completion of subjects totalling 24 credit points, by attending four week-long sessions over one year.

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

Part-time

Year 1: Graduate Certificate, Graduate Diploma and Master's degree

Semester 1

17800	Planning 1A	6cp
17805	Urban Analysis	4cp
59336	Politics and Planning ¹	2cp

Semester 2

17801	Planning 1B	6cp
17804	Sustainable Development	6cp

Year 2: Graduate Diploma and Master's degree

Semester 1

17802	Planning 2A	6cp
17807	Urban Design and Management	4cp
59337	Sociology and Planning ¹	2cp

Semester 2

17803	Planning 2B	6cp
17806	Urban Economics and Infrastructure	6cp

Year 3: Master's degree

Semester 1

17808	Specific Issues in Planning	6cp
17809	Graduate Project (P/T)	9cp

Semester 2

17809	Graduate Project (P/T)	9cp
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Full-time Master of Planning

Year 1

Semester 1

17800	Planning 1A	6cp
17805	Urban Analysis	4cp
59336	Politics and Planning ¹	2cp
17808	Specific Issues in Planning	6cp

Semester 2

17801	Planning 1B	6cp
17804	Sustainable Development	6cp
17809	Graduate Project (F/T)	6cp

Year 2

Semester 1

17802	Planning 2A	6cp
17807	Urban Design and Management	4cp
59337	Sociology and Planning ¹	2cp
17809	Graduate Project (F/T)	6cp

Semester 2

17803	Planning 2B	6cp
17806	Urban Economics and Infrastructure	6cp
17809	Graduate Project (F/T)	6cp

¹ 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 is designed for graduates and experienced professionals who want to upgrade their qualifications and skills to service clients better and keep pace with employer expectations and industry change. Project management attracts people with in-depth experience in many different fields and disciplines and is ideal for those seeking new or wider horizons of career opportunity.

The program provides a comprehensive grounding in both the underlying principles and practical aspects of project management and addresses the Australian National Competency Standards for Project Management.

Delivered through coursework, distance and workplace learning, the courses in the program focus on the project life cycle and key project management functions. Students also have opportunities to focus on specific project types and industries such as product development, IT, building and construction or organisational change.

Aims

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

- who can 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 such other evidence of general and professional qualifications which demonstrate 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 build on 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

or

82905	Research Methods	4cp
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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

or

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
xxxxx	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

xxxxx	Electives 1	(12cp maximum)
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 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 Research Methodology 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>		
xxxxx	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
<i>or</i>		
xxxxx	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

or

xxxxx 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

Recognition of current competence

Subjects in the nine Project Management competency areas are currently in the process of approval by the University. These subjects recognise competence gained in the workplace and can be credited towards the 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>		
xxxxx	Elective	6cp
<i>or</i>		
17111	Project Integration ³	6cp
17112	Project Scope	3cp
17113	Project Time	3cp
17114	Project Cost	3cp
17115	Project Quality	3cp
17116	Project Human Resources	3cp
17117	Project Communications	3cp
17118	Project Risk	3cp
17119	Project Procurement	3cp

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.
- 17111 Project Integration plus a minimum of six of the project competency subjects are required for award of a Graduate Certificate. Evidence of competence in any units/project competency subjects not taken would be required as a prerequisite for award of a Graduate Certificate.

Project Integration is maintained as a six credit point subject as it is regarded as the most important of the nine competencies, bringing all the others together.

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'.

The course addresses issues of sustainability that are expected to be at the forefront of the discipline early in the next century, and thereby aims to prepare professionals who soon will be faced with this new and challenging responsibility.

The course is offered to both local and international students as two years of part-time or one year of full-time study (48 credit points) and is full fee-paying. The course is delivered in a distance learning mode using information

technology, and comprises coursework studies and preparation of a written dissertation. The coursework component comprises readings and assignments on topics that are at the leading edge of research and industry practice.

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 construction-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 provides 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 has two commencement dates, namely March and August each year. Students are not required to regularly attend the University and can receive tuition and submit work remotely. Students in Sydney, however, are welcome to come and visit the staff at the University and ask questions or seek additional tuition as necessary. All students will be asked to visit Sydney for a few days at the conclusion of the course to review their dissertation and to meet their class mates face-to-face.

Students complete some aspects of the course individually and some aspects in groups. Electronic interaction occurs between academic staff and students, and between students and students, and 'virtual' study groups are established to enable discussion and critique. Extensive notes are provided on CD-ROM and required textbooks and software are purchased by the University and distributed to all students. Access to computer technology is essential.

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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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

Course codes: D057/AA52/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 research 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.

Please note: For administrative purposes, candidates for the PhD will be enrolled under one of three general course codes:

D057 PhD in Design

AA52 PhD in Architecture

AB54 PhD in Building/Quantity Surveying

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 at Honours level or equivalent, and be proficient in English. 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).

Subject descriptions

UNDERGRADUATE

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.

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

'Long life, low energy, loose fit 2'. 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.

11068

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.

11069

Architectural Practice 3B

3cp

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

11071

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.

11911

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 by a series of lectures and papers. All design projects will be timetabled to show how this method of delivery is to operate; to emphasise the integration of specific content from other subject areas within the program; and to 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 1

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 1, Weighting: 0.5

This component is an introduction to the constructional determinants of design. This is studied by 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 1, 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 through land records.

11913

Theory Studies I

9cp

Components:

Environmental Science I, Weighting: 0.3

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: 0.4

This component is an introduction to architectural thinking. It covers an introduction to thinking, reasoning and argument; problems and problem solving; and creativity. It also provides students with a basic introduction to criticism, close reading skills, interpretation, research and library skills, and essay-writing techniques.

History of Architecture I, Weighting: 0.3

The following will be offered in 1998. 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 the Romanesque and Gothic architecture of France, England, Germany, Spain and Italy.

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 I, 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:

Evolution of Human Settlement, 3cp

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 as well as the role of social structures and cultural mores. It includes case studies by climatic zones: Hot Arid, Hot Humid, Arctic, Temperate, and Mediterranean.

Life Drawing, 3cp

Details of component to be provided at time of enrolment.

Architecture/Technology/History, 3cp

A brief introduction to key ideas associated with the relation between architecture and technology throughout history.

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 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.

Theory and Architecture 2, Weighting: 0.3

This component is a continuation of previous work on architectural thinking. It introduces students to the architecture and theories of modernism and modernity.

History of Architecture 2, Weighting: 0.3

The following will be offered in 1998. Students must undertake both topics.

The Architecture of the Early Renaissance

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

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:

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 medium-rise and multi-use structures.

11933

Theory Studies 3

9cp

Components:

Environmental Science 3, Weighting: 0.4

This component follows on from the work done in 11923 Theory Studies 1: Environmental Science 2, 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.

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

The following will be offered in 1998. Students must undertake both topics.

Architecture in Sydney 1885–1930

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, 1850–1914

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

11934

Professional Practice 3

4cp

Components:

Architectural Practice 2, 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.

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

The following will be offered in 1998. Students must undertake both topics.

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.

Architecture in the USA, 1874–1936

Discussion in this unit will revolve around three main themes: 'Shingle Style' architecture and its emergence in the 1870s; developments in the design and construction of high-rise buildings in Chicago during the 1880s and 1890s; and the work of Frank Lloyd Wright between 1893 and 1936.

Theory and Architecture 3A, 3cp

Theory, architecture, philosophy and their interrelations.

Theory and Architecture 3B, 3cp

An introduction to the rise of postmodernism; key ideas and theorists; antifoundationalism; architecture and postmodernism; postmodern space; postmodernism and the city.

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 structures. It covers advanced constructional systems, including studies of precast and prestressed concrete design; timber technology; large-span 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 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 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 *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.

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.

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. In 1998, the following will be available:

1. 'Theories and issues in contemporary culture; (Re)thinking architecture'; an investigation, by 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.

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.

11961**Architectural Design and Technology 2**

(First offered 1999)

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**

(First offered 1999)

10cp

Components:

Theory and Architecture 5, Weighting: 0.5

In this component students must choose from a range of alternative seminar programs offered. In 1999 the following will be available:

1. (Re)thinking Architecture 2: 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.

13998**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.

16001**Preparatory Studies**

8cp

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.

16010**Construction Project 1**

8cp

Introduction to the basis of the program i.e., that construction is a process (or series of processes), which needs to be managed if building projects are to be successfully completed in terms of time, cost scope, and quality. The course provides an overview of the functions of management with an introduction to time, quality and cost management. Project case studies in this initial stage will relate to simple sheds and single

storey domestic construction. There is an introduction to some of the most common building trades.

16020**Construction Project 2**

8cp

Management of the process is further advanced with the issue of materials handling formally addressed along with the management of safety. Negotiation is introduced. Time, cost, scope and quality management are further developed. Project case studies relating to multi-residential and industrial buildings are utilised in this subject. The analysis of relevant trades continues.

16030**Construction Project 3**

8cp

The management of the building process concentrating on the physical sequencing and assembly of multi-storey or large construction. Emphasis is on the evaluation of techniques and technology of construction as linked to the human resource management issue. Multi-storey construction is examined in the case studies. The remaining trades are examined.

16040**Construction Project 4**

8cp

Management of the construction process in the services, refurbishment and multi-building environments. This subject brings together much of the work developed in the earlier subjects but in new areas and at a more advanced level. The project case study will concentrate on the physical sequencing and assembly of services, of refurbishment/recycling of obsolete buildings and of the commissioning and maintenance of buildings.

16050**Building Assessment Techniques**

4cp

The subject will be aimed at providing the student with the skills necessary to assess the technical condition of new and existing buildings and methods appropriate to each of the various building components (including services) will be covered. The assessment of the technical condition of existing buildings and the impact of that condition on possible future use of the building. Detailed knowledge

of the construction methods used in the past and the likely deterioration with time that would be expected of the building elements.

16051

History of Building Construction Methods

4cp

The subject is aimed at giving the students an appreciation of the worth of old buildings. It will cover the history of building construction methods through the ages.

16052

Water Around Buildings

4cp

This subject examines many aspects of water as it affects finished buildings. These aspects are: disposal of unwanted water, and the diagnosis and remediation of dampness problems.

16053

Mentoring and Professional Development

4cp

Develops mentoring and human communication skills which are vital in professional life. Emphasis is on developing leadership skills as responsibility is placed on the mentors (final year students) to interact with their allocated students. The course aims to develop supervisory and management skills, training skills, and offers a controlled situation where the necessity for good communication skills can be learnt at first hand. This subject aims to address issues of first year students through input from final year students.

16054

Natural Disasters and Risk Assessment

4cp

The subject will be aimed at providing the student with the skills necessary to understand the level of risk associated with new and existing buildings. Students will be taught the basic mechanisms responsible for causing natural disasters and how to statistically assess their likelihood of occurrence. Natural hazards and their management will be examined together with risk assessment techniques and regimes, quantitative methods, risk reduction and management.

16055

Sustainable Building Technologies

4cp

The subject will be aimed at providing the student with the skills necessary to evaluate the embodied energy and energy efficiency of existing construction methods as well as introducing alternative and more energy efficient methods. It will also cover the issues surrounding recycling of building materials.

16056

Building Control and Regulations

4cp

This subject will provide undergraduate students with an understanding of the New South Wales building control system and the technical requirements of the Building Code of Australia.

It will also provide students with sufficient knowledge for them to be able to review proposed building designs with respect to the fundamental requirements of the Building Code of Australia.

16057

The Evolution of Technology 1

4cp

An exploration of the history of technology will be the focus of this subject and the role of invention and design innovation in the process of economic growth and social development. An introduction to chaos theory and complexity and the evolution of technology will bring together two of the most potent forces in our history for exploration and analysis. The semester evaluates technology in the modern context of the sciences of complexity. The dialectic between technology and evolution is considered, as we gain evolutionary responsibility on the one hand and technological tools for this task on the other.

16058

The Evolution of Technology 2

4cp

This subject will be based on an examination of a series of case studies of major technologies and their effect on economic growth and social development. There is particular emphasis on the role of 'growth poles' and competition, both in innovation and in the dissemination and adoption of new ideas, memes, materials, tools, methods and systems. The effects of

technological change on the environment, the structure of the global economy and patterns of employment are considered. The rapid growth of communications and information technology is investigated in the context of employment, democracy and privacy issues. The potential impact on specific industries and their related professions over the next two decades is considered by constructing probable scenarios and use of foresighting techniques.

16115

Construction 1

8cp

This subject covers residential construction for single occupancy. Topics covered include: terminology and detail design of typical residential buildings; footings, floor, wall and roof framing, cladding, windows and doors, finishes and joinery; building regulations; interpreting architectural drawings and sketching construction details; model making; concurrent practical studies and field work.

16116

Construction 2

8cp

This subject looks at residential construction for multiple occupancy and is centred on terminology and detail design of typical attached housing, including: duplex, villa, townhouse, cluster housing and walk up flats. Topics will include: footings, floor, wall and roof framing, cladding, windows and doors, finishes and joinery; interpreting architectural drawings and sketching construction details; building regulations; model making; industrial construction; terminology and detail design of typical industrial buildings; as well as concurrent practical studies and field work.

16117

Construction 3

8cp

The focus of this subject will be multi-storey commercial construction. Detailed attention will be given to: footings, sub surface drainage systems, basement construction, load-bearing wall systems, concrete framed buildings and steel framed buildings for multi-storey construction; transportation and placement of concrete; prestressed and post-tensioned concrete; prefabricated construction; scaffolding; building regulations together with concurrent practical studies and field work.

16118

Construction 4

8cp

This subject continues the analysis of multi-storey commercial construction. Topics include: shoring, formwork, stair and ramp construction; curtain walling, built-up roofing systems, doors and frames, partitions, suspended ceilings and finishes; construction techniques and equipment used for temporary works, site preparation and demolition; earthmoving and soil compaction equipment, compressed air services, piling systems and associated plant, dewatering, blasting equipment and landscaping; refurbishment and restoration of buildings; building and fire safety regulations and requirements; occupational health and safety; as well as concurrent practical studies and field work.

16131

Professional Practice

4cp

This course will cover 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.

16150

Land Studies 1

8cp

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

16152

Land Studies 2

4cp; 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.

16153

Building Technology

6cp

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; 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.

16163

Appraisal and Statistics

8cp

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

16197

Building Experience (F/T)

16198

Building Experience (P/T)

16201

Drawing and Surveying I

4cp

Detailed examination will given to the following topics: drafting and graphic skills including lettering, plane and solid geometry and projections; use of drawing to solve detailing problems; selection of scales and mode of presentation to communicate; use of drawings in the building process; architectural floor plans, reconciliation of dimensions, the meaning of lines, building terms, use of references; the process of setting out works; extractions of information from surveying

drawings, levels, contours; the choice of setting out techniques; the use of tape, level, theodolite and optical plummets; the NSW land title systems and the powers of public authorities.

16202

Drawing and Surveying 2

6cp

Topics covered will include the further use of drawing/s in the building industry context as a means of communication; introduction to the use of Computer Aided Design (CAD) and its uses in the construction discipline; the application of practical building setting out, checking and levelling techniques; and field work involving the use of building surveying equipment.

16211

Computations, Mathematics and Statistics

6cp

The mathematics and statistics components of the subject are intended to assist exploration and application of functions and graphs, differentiation and integration. Other topics which will be taken up are: an introduction to matrix algebra; chance and probability, permutations and combinations; presentation of data; average and means, central tendency; scatter, standard deviation, variance; distribution: binomial, Poisson, normal, confidence; correlation and regression; application of statistical methods of quality management; statistics, operations research techniques and process capabilities. The computing component of the subject is intended to develop the students' basic knowledge of computing and an awareness of industry specific software. It is structured to allow them to further develop these skills through the solving of suitable problems.

16221

Project

12cp

This project will involve 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; 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; (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; (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 1

6cp

An introduction to electrical, air conditioning, vertical transportation and fire protection services and systems, this subject covers terminology, design and construction requirements.

16302

Services 2

4cp

This subject will include: an introduction to hydraulic, security services and systems, intelligent buildings and an in-depth study on coordination, integration, installation and inspection of services, safety and access requirements.

16310

Engineering Services

8cp

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

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; 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; 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; 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 in the Australian economy. Practical studies and field work are included as part of the requirements for this subject.

16355

Specialised Valuation Topics

8cp; 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

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

16361

Real Estate I

6cp

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.

16402

Management 2

6cp; 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

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

16404

Management 4

6cp

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

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

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

16407

Building Communications

6cp

Develops human communication skills and promotes understanding of the communication process. Emphasis is on business writing and effective speech communication. Intensive writing practice will be related to communication principles. Teaching will be by lectures for communication principles and in small group workshops for writing and oral communication. Introduction to the applied skills of plan reading, building specifications, report writing, computer word processing, information technology systems etc.

16411**Contract Administration**

8cp; 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.

16452**Land Studies 3**

6cp

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.

16453**Development Management**

4cp; 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; 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.

16456**Real Estate 2**

8cp; 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.

16501**Quantity Surveying 1**

8cp

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 development and the role of professional associations is also discussed.

16502**Quantity Surveying 2**

8cp; 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; 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

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

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; 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

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.

16515**Building Company Performance**

6cp

The objective of this subject will be to provide students with a thorough understanding of the financial operations of companies and the factors which affect their financial performance.

16516**Development Appraisal**

4cp

The objective of this subject is to acquaint students with the economic and political framework within which developers have to operate and to provide them with the necessary technical tools to carry out a full feasibility study of a development proposal, with a strong emphasis being placed on environmental considerations. Public sector projects will also be considered.

16521**Cost Planning and Modelling**

8cp; 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

An introduction to the structure and performance of both the Australian economy and the international economy is the basis of this subject 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; 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 I

6cp; 3hpw; prerequisite: 16542 Quantities 2

Centred on the development of techniques and skills for the pricing of construction work. This subject will include: 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

8cp, 2hpw; prerequisite: 16531 Estimating I

A review of the techniques used in the preparation of competitive tenders for construction projects is undertaken. Tendering objectives and procedures are examined in detail. Topics will include: bidding strategy theory and practice including statistical applications; risk analysis and risk evaluation theory; probabilistic estimating techniques; and cost planning in building construction.

16533

Estimating

8cp; 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 of 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; 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

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; 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.

16543**Quantities***6cp*

The aim of this subject is to give an introduction to measurement and calculation of construction quantities. Topics will include: principles of measurement, set-out and notation; the preparation and uses of a bill of quantities and types of documentation formats in common use; the acquiring of competence in preparing trade packages within a bill of quantities in accordance with the current Australian Standard Method of Measurement; measurement rules and procedures; the acquiring of competency in preparation of a builder's bill; and computer measurement systems.

16551**Economics***8cp*

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*

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.

16553**Finance and Investment Analysis***8cp; 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.

16554**Urban Economics***8cp; 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 1***4cp*

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*

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; 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

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

This subject looks at the contextual issues which relate to human 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

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

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.

16721**Material Science**

8cp

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.

16722**Materials Science 1**

6cp

This subject is based on an introduction to materials science as applied to building materials. Most common building materials are covered but not in depth. A scientific rather than final properties approach is taken and a major theme is the physics of heat and light.

16723**Materials Science 2**

6cp

This is a detailed course on the materials science of metals used in buildings, mastics, sealants, surface coatings, composites and concrete. A major theme is the physics of light and sound.

16751**International Property Investment**

8cp

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.

16801**Legal Studies 1**

8cp

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; 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.

16808

Construction Law

6cp

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

16851

Introduction to Law

6cp

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

16853

Planning and Environmental Law

4cp; 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; 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.

16901

Structures 1

6cp

An introduction to structure applied to a simple building. The building will be the project in the subject Construction Project. Theory is introduced to enable simple proportioning of members to be carried out.

16902

Structures 2

6cp

The design of simple structural elements in timber steel and reinforced concrete related to the buildings studied in the subject Construction Project. Little additional analysis is covered; most is an application of materials.

16903

Structures 3

6cp

Analysis of structural action is extended to statically indeterminate beams, frames and two-way reinforced concrete slabs. Computer analysis is used to examine structural action and to automatically design frame elements.

16961

Project

10cp; 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.

16970

Practical Urban Planning 1A

6cp

An introduction to local planning and the management of the local environment, with the emphasis on the application of concepts and policies through practical planning techniques.

16971

Practical Urban Planning 1B

4cp

An introduction to local planning and the management of the local environment, with the emphasis on the application of concepts and policies through practical planning techniques.

16972

Practical Urban Planning 2A

6cp

This subject is an introduction to the planning of regions such as Sydney, and the social, economical and environmental issues which are addressed. The emphasis is on the application of concepts and policies through practical planning techniques.

16973**Practical Urban Planning 2B**

4cp

This subject continues the introduction to the planning of regions such as Sydney, and the social, economical and environmental issues which are addressed by planners. The emphasis is on the application of concepts and policies through practical planning techniques.

16997**Land Economics Experience (F/T)****16998****Land Economics Experience (P/T)****51002****Creative Writing I**

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 in order to reach a better understanding of the individual in relation to social, cultural and political contexts. 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.

51388**Communications**

2cp

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.

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 into 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.

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 in 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.

84220

Design Project ID 2

14cp; 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 multidesign-discipline groups in Stage 1 to the Industrial Design course stream. No other subjects are taken at this level.

84330

Design Project ID 3

14cp; prerequisite: 84220 Design Project ID 2

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

84440

Design Project ID 4

14cp; prerequisite: 84330 Design Project ID 3

The same format as 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.

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.

86220**Design Project IT 2***12cp; 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; and 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 students 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.

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, multiculturalism, national identity and popular culture are introduced and developed through project activity.

Design Methods

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

Design Elements

These are investigated through 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 contexts that have 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 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.

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 provides 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 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.

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 sustainability 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 1***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 the 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.

88603

Film and Video Design 4

6cp

Continuation of 88503.

88604

Illustration 4

6cp

Continuation of 88504.

88605**Photography 4***6cp*

Continuation of 88505.

88606**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 in the conceptual use of textiles in the built environment and present visual documentation of selected textiles and surfaces associated with a specific project or site.

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.

The following subject numbers are used for concurrent studies overseas undertaken by Bachelor of Design students:

89950**Weisbaden****89951****University of Brighton****89952****St. Martin's College of Design**

POSTGRADUATE

Please note that not all subjects are available at all times as they are subject to timetabling and the availability of resources.

12xxx

Heritage and Development

4cp or 6cp

This subject is centred on the development of sites of heritage significance, including both statutory and strategic planning issues and practice and the evaluation of the statutory and community processes involved in heritage conservation issues. The economics of heritage conservation is discussed and an emphasis is placed on the creation of innovative solutions to the development of heritage buildings and sites.

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.

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.

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.

12586**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.

12587**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.

12588**Design Management 1***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.

12589**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.

12590**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 social issues.

16974**Theory and Practice of Urban Planning 1A***6cp*

An introduction to local planning and the management of the local environment, with the emphasis on the application of concepts and policies through practical planning techniques.

16975**Theory and Practice of Urban Planning 1B***4cp*

An introduction to local planning and the management of the local environment, with the emphasis on the application of concepts and policies through practical planning techniques.

16976**Theory and Practice of Urban Planning 2A***6cp*

An introduction to the planning of regions such as Sydney, and the social, economical and environmental issues which are addressed in such planning: the emphasis is on the application of concepts and policies through practical planning techniques.

16977**Theory and Practice of Urban Planning 2B***4cp*

An introduction to the planning of regions such as Sydney, and the social, economical and environmental issues which are addressed in such planning: the emphasis is on the application of concepts and policies through practical planning techniques.

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.

17111**Project Integration***6cp*

This subject is an introduction to, and overview of, generic project management with an emphasis on the integration of processes within the project life cycle; generic project phases and life cycles; an introduction to the context of project management; teams and teamwork in project management.

17112**Project Scope***3cp*

As an introduction to, and overview of, project scope management, this subject emphasises the processes, tools and techniques used to ensure the project includes all the work necessary for its completion, including initiation, planning, definition, verification and control of project scope.

17113

Project Time

3cp

This subject introduces the student to project time management with an emphasis on the processes, tools and techniques available to assist with achieving time control for a project including activity definition, activity sequencing, activity duration estimating, schedule development and schedule control.

17114

Project Cost

3cp

This subject introduces the student to project cost management with an emphasis on the processes, tools and techniques available to assist with achieving cost control for a project; resource planning, cost estimating, cost budgeting, cost control and some emphasis on life-cycle costing.

17115

Project Quality

3cp

This subject is an introduction to, and overview of, the quality management of generic projects with an emphasis on the basic tools and techniques associated with project quality management including the specific processes associated with: quality planning, quality assurance and quality control, cost budgeting, and cost control throughout the project life-cycle.

17116

Project Human Resources

3cp

Project human resource management includes the processes required to make the most effective use of the people involved with the project and provides an overview of organisational planning. Special emphasis is placed on staff acquisition for time-delimited projects, project roles and responsibilities, documentation and reporting relationships and project team building and development.

17117

Project Communications

3cp

This subject centres on the development of expertise in the processes required to ensure timely and appropriate generation, collection, dissemination, storage, and finalisation of project information. Specific topics include project communications planning, project information distribution, project performance reporting and processes and tools for project administrative closure and finalisation.

17118

Project Risk

3cp

This subject is based on an introduction to the theory and method associated with risk analysis and control. The subject includes the processes, tools and techniques associated with the management of risks, both positive and negative, for the project life cycle, including procedures for identification risk, quantification of risk, risk-response development and risk-response control.

17119

Project Procurement

3cp

The processes and techniques required to acquire the goods and services essential to completion of a project. Emphasis is placed on procurement planning, solicitation planning, solicitation processes, evaluation and selection of appropriate contractors or suppliers, contract administration, contract close-out and finalisation.

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.

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.

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 social 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 1998, topics to be 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.

17707

Performance-based Certification

6cp

This subject covers the 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 the 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.

17800**Planning 1A***6cp*

Planning is built around a planning project and is the central, integrating activity of the course. A real and relevant site is chosen: different aspects of development and planning processes are applied to that site in successive semesters. Knowledge is applied, skills are learned, and techniques of investigation, planning, design, communication and management are developed through practice.

The first semester sees the investigation of a major and complex site, through the documentation of its physical characteristics and its social and environmental context; the development of ideas for the site; the preparation of briefs and contracts; the development of skills in relevant aspects of planning practice.

17801**Planning 1B***6cp; prerequisite: 17800 Planning 1A*

This subject involves an 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.

17802**Planning 2A***6cp; prerequisites: 17801 Planning 1B*

This subject continues the assessment of planning options for the chosen site, through an evaluation of alternatives, an analysis of feasibilities, an assessment of impacts, and an analysis of benefits and costs; and the development of skills in relevant aspects of planning practice.

17803**Planning 2B***6cp; prerequisite: 17802 Planning 2A*

This subject covers the preparation of final plans for the chosen site, goals and objectives, policies, implementation mechanisms, visualisation, the presentation and promotion of the plan, and the development of skills in relevant aspects of planning practice.

17804**Sustainable Development***6cp*

This subject focuses on the physical environment and development where the following topics will be discussed: ecology, geomechanics, climate and noise measurement, with an examination of erosion, water pollution, solar access, air quality, wind effects and noise pollution; the source of environmental design criteria for urban development.

Managing movement is the second major area of topics: current and projected practice in transportation engineering, traffic management, public transport provision and the design, construction and maintenance of roads; paratransit; pedestrian requirements and opportunities.

Finally, economic concepts and methods are discussed: the concepts of micro and macroeconomics, and the analysis of externalities in an urban and regional context; 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.

17805**Urban Analysis**

4cp

Issues embraced by this subject include aspects of the history of state regulation of urban development; the history of town planning and the planning profession; the ideologies of planning; research for planning practice; and sources of information for urban policy, management and planning.

Property and development law is also a major focus of attention: aspects of property law including occupier's liability, tenancy, resumption and compensation; nuisance law as it relates to planning and the environment; planning and development law including legislative framework, comparative models and intergovernmental relations; health and building control issues and related issues in planning; developer contributions; and current issues and controversies in planning and development law.

17806**Urban Economics and Infrastructure**

6cp; prerequisite: 17804 Sustainable Development

This subject introduces the student to four major areas: urban economics; the analysis of location as a factor in urban development; methods and purposes of feasibility studies; market analysis and valuation; and costings and estimating rates of return.

Urban and regional economic issues: as a demonstration of economic method and so as to examine a topic in depth, one of the following topics will be studied – housing, recreation, tourism, transportation, public sector finances, the incidence of infrastructure costs.

Management of land and services: the principles of soil and nature conservation and catchment management; the cultural significance of natural and historic environments, and heritage conservation; the design, construction and operation of water supply, sewerage, drainage, gas, electricity and telecommunications systems.

Current practice in the design and management of infrastructure: the values, concepts and methods used in engineering and related professions; the use of warrants and specifications, and approaches used in the design, construction, operation and maintenance of infrastructure and other elements in the built environment; the strengths and limitations of these practices.

17807**Urban Design and Management**

4cp; prerequisite: 17805 Urban Analysis

This subject is based on an introduction to the history of ideas of the city and of city form; aspects of the history of building and urban development; past and present attitudes and approaches to the management of the urban design process; principles, criteria and values used in urban design. The principles of the management of development and construction processes; the roles of the various players in urban development. The management of public sector planning agencies and the roles of planning staff; professional practice management.

Another major area of study is environmental law: the operation of environmental law in the Australian federal system; Commonwealth-State relationships; air, water, waste, and heritage law; the law and practice of environmental impact assessment; relevant principles of administrative law; implications for government. The role of the relevant courts and the nature of environmental litigation; changes in the treatment of standing; practice and procedure of the Land and Environment Court of NSW. Current issues and controversies in environmental law and policy.

17808**Specific Issues in Planning**

6cp

Centring on planning in the contemporary world of electoral politics, bureaucracies, business, resident action and environmental campaigns: this subject sees the detailed analysis of a small number of specific current issues.

17809**Graduate Project (P/T)**

18cp over two semesters; prerequisites: all first and second year subjects

The graduate project consists of a major planning project based on real site(s)/area(s)/issues. The project will be carried out individually while collaborating with group of three or four others. Each member of the collaborative group is responsible for a planning project which is assessed both on the quality of the work and on its integration with the work of the other members.

17810**Graduate Project (F/T)**

18cp over three semesters; prerequisites: All first semester subjects

The graduate project consists of a major planning project based on real site(s)/area(s)/issues. The project will be carried out individually while collaborating group with group of three or four others. Each member of the collaborative group is responsible for a planning project which is assessed both on the quality of the work and on its integration with the work of the other members.

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 in 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.

81020**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.

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.

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 I**

4cp

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

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.

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.

81031**Web Design**

4cp

This course develops the skills and abilities required to create pages and graphics on the Internet. The course introduces students to the basics of Web Page design and develops skills necessary to achieve these abilities. The primary focus of the class is on design problem solving and design issues currently applied to Internet Design.

81032**Internet Design**

4cp

This subject aims to give the students who have attained appropriate computer graphics and design skills the ability to develop a website combining good design techniques using the latest web design technologies. They will be encouraged to evaluate critically the implications of functional design for the Web. The course introduces students to all facets of web page design and web site management.

81033**Multimedia I**

4cp

This subject develops and expands the basic theories and skill learnt in 81925 Computer Animation 1. This course covers the topics of animation, inter-activity and computer-generated digital movies. The course also covers the design process in computer animation as well as theory and conceptualisation of design in computer animations.

810334**Multimedia 2**

4cp

This subject develops and expands the basic theories and skill learnt in 81030 Computer Animation 2. This course covers the topics of advanced animation, advanced inter-activity and advanced computer-generated digital movies. The course also covers the design process in computer animation as well as theory and conceptualisation of design in computer animations.

81035**Digital Print Media I**

4cp

This subject aims to develop students' knowledge and skills in creating and developing design solutions using advanced computer applications. To enrol, students must have demonstrable ability in graphic and typographic design and have attained basic computer graphics skills. Students will be encouraged to be imaginative and conceptually demanding in evaluating digitally generated visual production as effective and relevant visually communicated solutions and professionally produced pre-press documents.

81036**Digital Print Media 2**

4cp

This subject aims to consolidate students' knowledge and develop advanced skills in creating and developing design solutions using appropriate computer applications. Students will be encouraged to be imaginative and conceptually demanding in evaluating digitally processed and refined graphic and typographic design as effective and relevant solutions to realistic design briefs produced as professionally viable visuals and print pre-press documents.

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.

81920**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.

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.

82004**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.

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.

82013

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.

82014

Special Studies 2

4cp

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

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.

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.

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.

82901

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.

82903

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.

82905

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).

82912**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.

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.

82917**Information Retrieval***4cp*

This subject will provide a comprehensive yet practical understanding of information-retrieval practices essential to effective professional and personal operation. It will address both formal and informal, traditional and novel resources.

82918**Design Ethics***4cp*

The subject enables a more critically incisive and rigorous appraisal of designing and designs as they impact on users and communities. It encourages the application of or demand for socially responsible criteria as an integral aspect of functional efficiency in design. It promotes an ethical and hence professional basis for evaluating design priorities and practical outcomes.

82919**Sustainable Design***4cp*

This subject explores the relation between ecological sustainability and design practice, leading in turn towards the development of ecodesign practices which usefully contribute towards a sustainable society.

89012**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.

89013**Design Case Studies 2***4cp*

A continuation of 89912 Design Case Studies I.

89104**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.

89912

Design Case Studies I

4cp

This 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 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.

89914

Design Practice I

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 with a designer in the development of a design proposal in the area of exhibition or environmental design or the manufacturing or communication industry. Students undertake two individual research and design projects.

89917

Design Project (P/T)

12cp

This subject is a program of individual supervised research or design.

Assessment is made on submission of an original body of work which usually includes four elements: research, development, evaluation and report. Topics 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.

89918

Design Project (F/T)

24cp

As for 89917 Design Project (P/T).

89919

Design and Technology I

4cp

Provides the knowledge and skills integral to the understanding of the processes and practice of design. The content will cover design elements, contextual studies, communication and design methodology. The application of design methodologies to the classroom situation will be considered. Pedagogical content to apply design methodologies in the classroom will support the relevant school curriculum.

89920

Design and Technology 2

4cp

This subject further explores and extends issues raised in Design and Technology 1 by examining the interrelationship of design with society and the environment, together with the role of design and design decisions in education. It covers the implications of technological change within the context of the needs and wants of society through the presentation of design briefs. Evaluating ideas and finding solutions to problems and communicating design processes will be discussed and assessed. Pedagogical content to apply design methodologies in the classroom will support the relevant school curriculum.

INTERNATIONAL STUDIES SUBJECTS

50140

Modernisation and Social Change

(Faculty of Humanities and Social Sciences)

8cp; 4hpw

The aim of this subject is to provide students with an understanding of the processes of modernisation and social change in a comparative context using case studies in countries of Western Europe, Latin America, East and South-East Asia. The lectures will highlight a number of key issues, for example whether the processes of social change are universal or specific; the consequences of modernisation in and for the economy, politics, society, culture and ideology of non-Western societies; and whether the established Eurocentric analytical models are still useful in understanding the modern world. It will be emphasised that differing interpretations of modernisation flow from various relations of power which lead to a multiplicity of views on its meanings and significance.

There are no prerequisites for this subject.

971111, 972111, 973111, 974111

Chinese Language and Culture 1

8cp; 6hpw; prerequisite: nil

Chinese 1 aims at developing in students a survival communicative ability in basic social interactions. It teaches students *Pinyin*, the official transcription system, as a guide to the pronunciation of the Chinese language, and some basic structures and devices of the language. Students are expected to know about 300 Chinese characters by the end of this unit.

Chinese Language and Culture 2

8cp; 6hpw; prerequisite: Chinese Language and Culture 1

Chinese 2 aims continues to develop in students a survival communicative ability in basic social interactions. It also introduces students to some of the basic structures and devices of the language. Students are expected to know about 600–800 Chinese characters by the end of this unit.

Chinese Language and Culture 3

8cp; 6hpw; prerequisite: Chinese Language and Culture 2 or HSC Chinese

Chinese 3 is the entry point for students who have completed HSC 2/3 Unit Chinese and who first learnt Chinese at school in Australia.

Chinese 3 aims at further developing students' oral communicative competence in basic social interactions. More written texts will be gradually introduced to enhance the ability of students to use Chinese characters. The basic structures and devices of the language will be reinforced. Students are expected to know about 1,200 Chinese characters by the end of this unit.

Chinese Language and Culture 4

8cp; 2nd semester, 6hpw; prerequisite: Chinese Language and Culture 3

Chinese 4 is the second unit for students who have completed HSC 2/3 Unit Chinese.

Chinese 4 aims at further developing students' communicative competence in basic social interactions. More written texts are introduced to enhance the ability of students to use Chinese characters. The basic structures and devices of the language are also reinforced. Students are expected to know about 1,600 Chinese characters by the end of this unit.

Chinese Language and Culture 5

8cp; 1st semester, 6hpw; prerequisite: Chinese Language and Culture 4

Chinese 5 is the third unit for students who first learnt Chinese at school in Australia and obtained HSC-level Chinese.

Chinese 5 aims at further developing students' communicative competence in general social interactions. While reinforcing the macro-skills of reading, writing, listening and speaking, this unit will focus on practical writing skills. Students are expected to know about 2,000 Chinese characters by the end of this unit.

Chinese Language and Culture 6

8cp; 6hpw; prerequisite: Chinese Language and Culture 5

Chinese 6 is the fourth subject for students who have obtained HSC 2/3 Chinese with basic communicative skills and the ability to undertake In-country Study in China.

Chinese 6 aims at further developing students' communicative competence in general social interactions. While reinforcing basic structures and devices of the language, this unit will further develop student's writing skills.

Students are expected to know about 2,500 Chinese characters by the end of this unit.

Chinese Language and Culture 7

8cp; 4hpw; prerequisite: a working knowledge of Chinese characters as well as communicative competence in a Chinese language other than Modern Standard Chinese.

Chinese 7 is for students who have a working knowledge of Chinese characters as well as communicative competence in a Chinese language other than Modern Standard Chinese.

This unit aims at developing communicative competence to meet students' needs in social and professional interactions where Modern Standard Chinese (also known as Mandarin, *Putonghua* or *Guoyu*) is used. Simplified characters, pronunciation, intonation and situational Chinese usages are the focus of class instruction.

Chinese Language and Culture 8

8cp; 4hpw; prerequisite: Chinese Language and Culture 7 or equivalent

This unit aims at developing a communicative competence at a more sophisticated level. Students are exposed to a range of Chinese texts in varied socio-cultural contexts to master Chinese for different purposes, and are provided with opportunities to further improve speaking and listening skills through discussions of the texts and making cross-cultural comparisons.

Chinese Language and Culture 9

8cp; 4hpw; prerequisite: Chinese Language and Culture 8 or equivalent

This unit aims at developing in students a high level of communicative competence required for understanding various electronic and published media articles, correspondence and texts related to contemporary society. Modern Standard Chinese (also known as Mandarin, *Putonghua* or *Guoyu*) is used. Students are exposed to a range Chinese texts to master Chinese for different purposes, and are provided with opportunities to maintain speaking and listening skills through discussion of texts.

Chinese Language and Culture 10

8cp; 4hpw; prerequisite: Chinese Language and Culture 9 or equivalent

This unit aims at further developing in students a high level of communicative competence in reading and writing to meet

students' needs in social and professional interactions Modern Standard Chinese (also known as Mandarin, *Putonghua* or *Guoyu*) is used. Students are exposed to a range of diverse texts of modern Chinese literature, history, language and culture to master written Chinese for different purposes, and are provided with further opportunities to maintain speaking and listening skills through discussion of the texts.

971121, 972121, 973121, 974121

Cantonese Language and Culture A-1

8cp; 1st semester, 6hpw; prerequisite: nil

Cantonese A-1 is the first subject in the Cantonese A program. It is designed to provide students who have no prior knowledge of Cantonese with basic survival skills in language and culture, and the ability to undertake In-country Study in South China.

This subject aims at developing in students a survival communicative ability in basic social interactions. It also deals with the basic language structures and devices of Cantonese. Students will be taught the basic structures of Chinese writing and are expected to know about 150 Chinese characters by the end of the subject.

Cantonese A-1 consists of 78 hours of classroom instruction, involving many interactive group and pair-work activities. Audiovisual equipment and computers will be used to facilitate teaching and learning. A communicative approach is adopted for classroom instruction and students are expected to participate actively in all classroom activities in the process of acquiring language skills. The teaching incorporates an introduction to Cantonese culture and helps students to appreciate the wider cultural ramifications of Cantonese in various contexts.

Cantonese Language and Culture A-2

8cp; 2nd semester, 6hpw; prerequisite: Cantonese Language and Culture A-1

Cantonese A-2 is the second subject in the Cantonese A program. It is designed to provide students who have no prior knowledge of Cantonese with basic survival skills in language and culture, and the ability to undertake In-country Study in South China.

This subject aims at developing in students a communicative and linguistic competence in basic social interactions. It also deals with some of the basic structures and devices of Cantonese. Students will be taught the basic structures of Chinese writing and are expected

to know about 300 Chinese characters by the end of the subject.

Cantonese A-2 consists of 78 hours of classroom instruction, involving many interactive group and pair-work activities. Audiovisual equipment and computers will be used to facilitate teaching and learning. A communicative approach is adopted for classroom instruction and students are expected to participate actively in all classroom activities in the process of acquiring language skills. The teaching incorporates an introduction to Cantonese culture and helps students to appreciate the wider cultural ramifications of Cantonese in various contexts.

Cantonese Language and Culture A-3

8cp; 1st semester, 6hpw; prerequisite: Cantonese Language and Culture A-2

Cantonese A-3 is the third subject in the Cantonese A program. It is designed to provide students who have no prior knowledge of Cantonese with basic survival skills in language and culture, and the ability to undertake In-country Study in South China.

This subject aims at developing in students a communicative and linguistic competence in general social interactions. It also deals with the language structures and devices of Cantonese. Discourse features such as registers and polite forms will be discussed. More Cantonese vocabulary and idiomatic expressions will be introduced. Students are expected to know about 500 Chinese characters by the end of the subject.

Cantonese A-3 consists of 78 hours of classroom instruction, involving many interactive group and pair-work activities. Audiovisual equipment and computers will be used to facilitate teaching and learning. A communicative approach is adopted for classroom instruction and students are expected to participate actively in all classroom activities in the process of acquiring language skills. The teaching incorporates an introduction to Cantonese culture and helps students to appreciate the wider cultural ramifications of Cantonese in various contexts.

Cantonese Language and Culture A-4

8cp; 2nd semester, 6hpw; prerequisite: Cantonese Language and Culture A-3

Cantonese A-4 is the last subject in the Cantonese A program. It is designed to provide students who have no prior knowledge of Cantonese with basic survival skills in

language and culture, and the ability to undertake In-country Study in South China.

This subject aims at developing in students a communicative and linguistic competence in general social interactions. It deals with the more complex language structures and devices of Cantonese. A number of Cantonese discourse features will be discussed. More Cantonese vocabulary and idiomatic expressions will be introduced. Students are expected to know about 800 Chinese characters by the end of the subject.

Cantonese A-4 consists of 78 hours of classroom instruction, involving many interactive group and pair-work activities. Audiovisual equipment and computers will be used to facilitate teaching and learning. A communicative approach is adopted for classroom instruction and students are expected to participate actively in all classroom activities in the process of acquiring language skills. The teaching incorporates an introduction to Cantonese culture and helps students to appreciate the wider cultural ramifications of Cantonese in various contexts.

Cantonese Language and Culture B-1

8cp; 1st semester, 4hpw; prerequisite: a working knowledge of one of the Chinese languages

Cantonese B-1 is the first of a two-subject language program for students who have a working knowledge of at least one Chinese language to prepare them for a year of In-country Study in South China.

This subject aims at developing the students' communicative and linguistic competence in general social interactions where Cantonese is used. The Yale romanisation for transcribing Cantonese and pronunciation will be discussed in class. Situational Cantonese usages in different contexts are the main focus of class instruction. The teaching incorporates an introduction to Cantonese culture and helps students to appreciate the wider cultural ramifications of Cantonese in various contexts.

Cantonese B-1 consists of 52 contact hours of classroom instruction, involving many interactive group and pair-work activities. Audiovisual equipment and computers will be used to facilitate teaching and learning. The teaching approach adopted is 'communicative' and students are expected to participate actively in all classroom activities in the process of acquiring language skills.

Cantonese Language and Culture B-2

8cp; 2nd semester, 4hpw; prerequisite: Cantonese Language and Culture B-1

Cantonese B-2 is the second of a two-subject language program for students who have a working knowledge of at least one Chinese language to prepare them for a year of In-country Study in South China.

This subject aims at further developing the students' communicative and linguistic competence in general social interactions where Cantonese is used. Situational Cantonese usages and vocabulary in different contexts are the main focus of class instruction. Discourse features of Cantonese will also be discussed. The teaching incorporates an introduction to Cantonese culture and helps students to appreciate the wider cultural ramifications of Cantonese in various contexts.

This subject consists of 52 contact hours of classroom instruction, involving many interactive group and pair-work activities. Audiovisual equipment and computers will be used to facilitate teaching and learning. The teaching approach adopted is 'communicative' and students are expected to participate actively in all classroom activities in the process of acquiring language skills.

971211, 972211, 973211, 974211

Japanese Language and Culture 1

8cp; 1st semester, 6hpw; prerequisite: nil

This is the first subject in the Japanese Language and Culture program. It is designed as the first step in providing students with no prior knowledge of Japanese with the basic survival language skills and socio-cultural awareness to enable them to undertake In-country Study in Japan.

While focusing primarily on the development of speaking and listening skills, this subject also provides a working knowledge of the *hiragana* and *katakana* scripts and approximately 50 *kanji*. Socio-cultural aspects are integrated into the program as they relate to the need for students to learn to use the language appropriately in various social and cultural contexts.

Japanese Language and Culture 2

8cp; 2nd semester, 6hpw; prerequisite: Japanese Language and Culture 1

This is the second in a series of four units for students with no prior knowledge of the Japanese language. By the completion of this subject, students should be able to demonstrate

the language and socio-cultural skills required to establish and maintain relationships in social or work-related spheres, and fulfil basic survival needs in a Japanese-speaking environment.

Emphasis is given to the development of speaking and listening skills, but students will also further develop their reading and writing skills. Besides *kana* they will know approximately 150 *kanji* by the end of the unit. Socio-cultural aspects are introduced into the program as they relate to the need for students to learn to use the language appropriately in various social and cultural contexts.

Japanese Language and Culture 3

8cp; 1st semester, 6hpw; prerequisite: Japanese Language and Culture 2 or HSC Japanese

Japanese 3 is the third in a series of four units for students with no prior knowledge of the Japanese language, or first in a series of four units for students who have successfully completed HSC-level Japanese. By the end of the subject, students are expected to have achieved survival proficiency, and be able to satisfy survival needs and limited social demands relating to topics and situations covered.

At the end of the subject, students are expected to have developed their listening, speaking, reading and writing skills in order to be able to communicate in everyday situations, and be able to demonstrate an awareness of the social implications of language and behaviour.

It is expected that students will know approximately 250 *kanji* by the end of the unit.

Japanese Language and Culture 4

8cp; 2nd semester, 6hpw; prerequisite: Japanese Language and Culture 3

Japanese 4 is the fourth in a series of four units for beginners. It is also the second in a series of four units for those who have successfully completed the 2-unit HSC course or its equivalent and aim to further develop Japanese listening, speaking, reading and writing skills. By the end of the subject, students are expected to have achieved limited social proficiency, and be able to interact in limited social, study and work contexts with Japanese speakers in Japan or Australia. They will also have learnt approximately 350 *kanji*.

Japanese Language and Culture 5

8cp; 1st semester, 6hpw; prerequisite: Japanese Language and Culture 4

Japanese 5 is the third in a series of four units in the post-HSC series, and is for those who have successfully completed either Japanese 4 or its equivalent and aim to further develop listening, speaking, reading, writing and cultural skills. By the end of the subject, students are expected to have achieved limited social proficiency, and be able to satisfy routine social and limited work demands. The emphasis is on the development of the language and cultural sensitivity required in both formal and informal situations. By the end of the subject, students are expected to be able to read and write approximately 470 *kanji*.

Japanese Language and Culture 6

8cp; 2nd semester, 6hpw; prerequisite: Japanese Language and Culture 5

Japanese 6 is the final subject in a series of four units in the post-HSC series and is for those who have successfully completed either Japanese 5 or its equivalent. By the end of this subject, students are expected to have achieved minimal vocational proficiency, and be able to speak the language with sufficient structural accuracy and vocabulary to participate effectively in many formal and informal conversations on practical, social and limited vocational topics. The emphasis is on the development of the language and cultural sensitivity required in both formal and informal situations. By the end of the subject, students should be able to read simple prose and read and write approximately 590 *kanji*.

971311, 972311, 973311, 974311

Indonesian Language and Culture 1

8cp; 1st semester, 6hpw; prerequisite: nil

Indonesian 1 is the first in a series of four units for students with no prior knowledge of Indonesian. By the end of the subject, students are expected to have achieved elementary proficiency and be able to satisfy immediate needs using learnt utterances and phrases relating to the following 10 themes: self and family; direction and location; time; food and drink; buying and selling; description; archipelago and continent; travel and transport; media and the press; and love and sex.

Students are expected to develop a vocabulary of about 800–1,000 words, a knowledge of basic word-order patterns, and a familiarity with the

alphabet and pronunciation patterns. This subject prepares people to exchange basic personal information using spelling and numeracy skills for names, addresses and time references etc.; engage in brief conversations within the range of themes covered; and express immediate needs with socially appropriate phrases. Students should be able to understand a limited amount of everyday written language e.g. on signs and in menus.

Indonesian Language and Culture 2

8cp; 2nd semester, 6hpw; prerequisite: Indonesian Language and Culture 1

Indonesian 2 is the second in a series of four units for students with no prior knowledge of Indonesian. By the end of the subject, students are expected to have achieved minimum survival proficiency, and be able to satisfy basic survival needs and minimum courtesy requirements relating to the following 10 themes: health; house and home; contacts and appointments; education and study; career and occupations; city and village; religion and beliefs; personalities and biography; letters; and Australia–Indonesia relations.

Students are expected to develop a vocabulary of about 1,600–2,000 words, a knowledge of common word-order patterns and the ability to recognise common affixational patterns. This subject prepares students to make simple appointments and arrangements with people, exchange personal background information, engage in five- to ten-minute conversations on the themes covered, and express feelings, likes and dislikes. Students should be able to understand short, practical pieces of written information, such as familiar signs, commands and timetables, and develop skills for reading longer, less familiar written forms.

Indonesian Language and Culture 3

8cp; 1st semester, 6hpw; prerequisite: Indonesian Language and Culture 2 or HSC Indonesian

Indonesian 3 is the third in a series of four units for students with no prior knowledge of Indonesian, or first in a series of four units for students who have successfully completed HSC-level Indonesian. By the end of the subject, students are expected to have achieved survival proficiency, and be able to satisfy survival needs and limited social demands relating to the following themes: personal relations; education – young generation; students; politics; ‘pop’ culture; religion and beliefs; tourism and its influences; trade; and economics and business.

Students are expected to develop a vocabulary of about 3,000 words by the end of the subject, a knowledge of common word-order patterns, and the ability to recognise, predict and use common affixational patterns. This subject prepares students to engage in short conversations on familiar issues without undue hesitation and with an ability to express their opinion. Students should also be able to comprehend simple texts, such as messages, instructions and directions, and write simple formulaic letters.

Indonesian Language and Culture 4

8cp; 2nd semester, 6hpw; prerequisite: Indonesian Language and Culture 3

Indonesian 4 is the fourth in a series of four units for students with no prior knowledge of Indonesian, or second in a series of four units for students who have successfully completed HSC-level Indonesian. By the end of the subject, students are expected to have begun to develop minimum social proficiency, and be able to satisfy limited routine social and work demands. The subject covers the following themes: the role of women; employment/labour; employers; mainstream/marginal cultures; literature; unity and diversity (multiculturalism); the environment; and Australia-Indonesia relations.

Students are expected to have developed a vocabulary of about 4,000 words by the end of the subject. They should also have developed an ability to recognise, predict and use common word-order and affixational patterns, and to participate in a limited range of social situations with appropriate language. This subject prepares students to be able to discuss familiar events and topics, and give opinions without undue hesitation and with the ability to justify themselves. Students should also be able to deal with short texts and correspond with Indonesians on familiar topics.

Indonesian Language and Culture 5

8cp; 1st semester, 6hpw; prerequisite: Indonesian Language and Culture 4

Indonesian 5 is the third in a series of four units for students who have successfully completed HSC-level Indonesian. By the end of the subject, students are expected to have developed minimum social proficiency, and be able to satisfy routine social and limited work demands. The subject covers the following themes: perceptions of the past; the origin of the New Order; aspirations; achievements; problems; political culture and participation; class and social stratification; and gender.

Students completing the subject should have a vocabulary of about 5,000 words. They should have the ability to recognise and reflect on ways in which vocabulary and grammatical patterns vary in different situational contexts, and how choices in grammar and vocabulary can convey the point of view of the writer and speaker beyond the basic transmission of information. This subject prepares students to discuss a range of social topics and a limited range of work topics, and present rudimentary arguments or points of view expressed with socially appropriate phrases to limit possible misunderstanding or offence. Students should also be able to understand the general thread of articles and documents on familiar topics, and write short texts, such as letters and instructions.

Indonesian Language and Culture 6

8cp; 2nd semester, 6hpw; prerequisite: Indonesian Language and Culture 5

Indonesian 6 is the fourth in a series of four units for students who have successfully completed HSC-level Indonesian. By the end of the subject, students are expected to have begun to develop a minimum vocational language proficiency, and be able to satisfy all routine social and a significant range of work demands. The subject covers the following themes: social and cultural pluralism; national and economic development; science; technical and scientific development; religion and popular culture; and internationalisation.

Students should have a vocabulary of about 6,000 words by the end of the subject. They should also have the ability to vary their language appropriately in accordance with a range of social and work situations, and be able to recognise and manipulate vocabulary and grammatical patterns. This subject prepares students to be able to present arguments or points of view, with the ability to frame them in a style that is appropriate to the social, cultural and interpersonal factors present. Students should also be able to understand articles and documents on familiar topics, and write short texts, such as letters, descriptions and simple explanations.

971320, 972320, 973320, 974320

Thai

Thai is offered to UTS students through the language program offered jointly by the University of Sydney and Macquarie University. The program is designed to allow complete beginners in Thai to reach a survival

level that will allow them to continue their studies in Thailand. If student numbers permit, classes will be available on UTS campuses.

971331, 972331, 973331, 974331

Malaysian Language and Culture 1

8cp; 1st semester, 6hpw; prerequisite: nil

Malaysian 1 is the first in a series of four units for students with no prior knowledge of the language. By the end of the subject, students are expected to have achieved elementary proficiency and be able to satisfy immediate needs using learnt utterances and phrases relating to the following 10 themes: self and family; direction and location; time; food and drink; buying and selling; description; archipelago and continent; travel and transport; media and the press; and love and sex.

Students are expected to develop a vocabulary of about 800–1,000 words, a knowledge of basic word order patterns and familiarity with the alphabet and pronunciation patterns. This subject prepares people to exchange basic personal information using spelling and numeracy skills for names, addresses and time references, to engage in brief conversations within the range of themes covered, and express immediate needs with socially appropriate phrases. Students should be able to understand a limited range of everyday written language, such as signs and items and prices on menus.

Malaysian Language and Culture 2

8cp; 2nd semester, 6hpw; prerequisite: Malaysian Language and Culture 1

Malaysian 2 is the second in a series of four units for students with no prior knowledge of Malaysian. By the end of the subject, students are expected to have achieved minimum survival proficiency and to be able to satisfy basic survival needs and minimum courtesy requirements relating to the following 10 themes: health; house and home; contacts and appointments; education and study; career and occupations; city and village; religion and belief; personalities and biography; letters; and Australia–Malaysia relations.

Students are expected to develop a vocabulary of about 1,600–2,000 words, a knowledge of common word order patterns and the ability to recognise common affixational patterns. This subject prepares students to make simple appointments and arrangements with people, exchange personal background information, engage in five- to ten-minute conversations on

the themes covered and express limited feelings, likes and dislikes. Students should be able to understand short practical written information, such as familiar signs, commands and timetables and develop skills for reading longer, less familiar written forms.

Malaysian Language and Culture 3

8cp; 1st semester, 6hpw; prerequisite: Malaysian Language and Culture 2

Malaysian 3 is the third in a series of four units for students with no prior knowledge of Malaysian, or first in a series of four for students who have prior knowledge or experience in Malaysian. By the end of the subject, students are expected to have achieved survival proficiency and be able to satisfy survival needs and limited social demands relating to the following themes: personal relations; education – young generation; students; politics; ‘pop’ culture; religion and belief; tourism and its influences; trade; economics; and business.

Students are expected to develop a vocabulary of about 3,000 words by the end of the subject, a knowledge of common word order patterns and the ability to recognise, predict and use common affixational patterns. This subject prepares students to engage in short conversations on familiar issues without undue hesitation and with a limited ability to express opinions. Students should also be able to comprehend simple texts, such as messages, instructions and directions and write simple formulaic letters.

Malaysian Language and Culture 4

8cp; 2nd semester, 6hpw; prerequisite: Malaysian Language and Culture 3

Malaysian 4 is the fourth in a series of four units for students with no prior knowledge of Malaysian, or second in a series of four units for students who have prior knowledge or experience of Malaysian. By the end of the subject, students are expected to have begun to develop ‘minimum social proficiency’ and be able to satisfy limited routine social and work demands demonstrating the following themes: role of women; employment/labour; employers; mainstream/marginal cultures; literature; unity and diversity (multiculturalism); the environment; and Australia–Malaysia relations.

Students are expected to have developed a vocabulary of about 4,000 words and an ability to recognise, predict and use common word order and affixational patterns and recognise

and respond to a limited range of social situations. This subject prepares students to discuss familiar events and topics and give opinions without undue hesitation and with a limited ability to justify these opinions. Students should also be able to deal with short texts and correspond with Malaysians on familiar topics.

Malaysian Language and Culture 5

8cp; 1st semester, 6hpw; prerequisite: Malaysian Language and Culture 4

Malaysian 5 is the third in a series of four units for students who have had prior experience of Malaysian. By the end of the subject, students are expected to have developed minimum social proficiency and be able to satisfy routine social and limited work demands. The subject covers the following themes: perceptions of the past; aspirations, achievements, problems; political culture and participation; class and social stratification; and gender.

Students completing the subject should have a vocabulary of about 5,000 words, and the ability to recognise and reflect on ways in which vocabulary and grammatical patterns vary according to situation, and how choices in grammar and vocabulary can convey the point of view of the reader and speaker beyond the basic transmission of information. This subject prepares students to discuss a range of social topics and limited range of work topics and present rudimentary arguments or points of view expressed with socially appropriate phrases to limit possible misunderstanding or offence. Students should also be able to understand the general thread of articles and documents on familiar topics and write short texts, such as letters and instructions.

Malaysian Language and Culture 6

8cp; 2nd semester, 6hpw; prerequisite: Malaysian Language and Culture 5

Malaysian 6 is the fourth in a series of four units for students who have had prior experience of Malaysian. By the end of the subject, students are expected to have begun to develop minimum vocational proficiency and to be able to satisfy all routine social demands and a significant range of work demands relating to the following themes: social and cultural pluralism; national and economic development; science; technical and scientific development; religion and popular culture; and internationalisation.

Students should have a vocabulary of about 6,000 words by the end of the subject, the

ability to vary their language appropriately in accordance with a limited range of social and work situations, be able to recognise and manipulate a choice of vocabulary and grammatical patterns on a limited level and to convey certain points of view. This subject prepares students to discuss a range of social topics and limited range of work topics, to present arguments or points of view, and to frame these in a style appropriate to the social, cultural and interpersonal factors present. Students should also be able to understand articles and documents on familiar topics and write short texts, such as letters, descriptions and simple explanations.

**971414/5, 972414/5, 973414/5,
974414/5**

French Language and Culture

The French language programs offered through the Institute for International Studies are those taught at the University of Sydney and Macquarie University. Both universities teach the language at various levels, accommodating different levels of proficiency. The French subjects develop communicative skills in listening, speaking, reading and writing, and introduce students to literary texts. Students also learn about French culture and contemporary society.

**971424/5, 972424/5, 973424/5,
974424/5**

German Language and Culture

The German language programs offered through the Institute for International Studies are those taught at the University of Sydney and Macquarie University. Both universities teach the language at various levels, accommodating different levels of proficiency. The German subjects develop communicative skills in listening, speaking, reading and writing, and introduce students to literary texts. Students also learn about German culture and contemporary society.

**971434/5, 972434/5, 973434/5,
974434/5**

Italian Language and Culture

The Italian language programs offered through the Institute for International Studies are those taught at the University of Sydney and Macquarie University. Both universities teach the language at various levels, accommodating different levels of proficiency. The Italian subjects develop communicative skills in

listening, speaking, reading and writing, and introduce students to literary texts. Students also learn about Italian culture and contemporary society.

971501, 972501, 973501, 974501

Spanish Language and Culture 1

8cp; 1st semester, 6hpw; prerequisite: nil

Spanish 1 is the first in a series of four units designed to provide students who have no prior knowledge of the Spanish language with basic survival skills in language and culture, and the ability to undertake In-country Study in Latin America or Spain.

By the end of the subject, students would be expected to have achieved 'elementary proficiency' and be able to satisfy immediate communication needs using expressions and phrases they have learnt that are required in basic social interaction. The program allows for the development of listening, speaking, reading and writing skills, and an understanding of the socio-cultural contexts in which the language is used. Students gain, in particular, an awareness of the background of Hispanic countries. Students also develop strategies for predicting the meaning of new expressions and anticipating ways of expressing new meanings.

Spanish 1 consists of 78 hours of classroom instruction. The approach adopted is 'communicative' and provides students with many opportunities to interact and use the language in various social and cultural contexts. Audiovisual equipment and computers will be used to facilitate learning.

Spanish Language and Culture 2

8cp; 2nd semester, 6hpw; prerequisite: Spanish Language and Culture 1

Spanish 2 is the second in a series of four units designed to provide students who have no prior knowledge of the Spanish language with basic survival skills in language and culture, and the ability to undertake In-country Study in Latin America or Spain.

By the end of the subject, students would be expected to have achieved 'minimum survival proficiency' in speaking, listening, reading and writing, and be able to satisfy immediate communication needs and minimum courtesy requirements in basic social interactions. Students will also develop an understanding of the socio-cultural contexts in which the language is used and further communication strategies.

Spanish 2 consists of 78 hours of classroom instruction. The approach adopted is 'communicative' and provides many opportunities for the students to interact and use the language in various social and cultural contexts. Audiovisual equipment and computers will be used to facilitate learning.

Spanish Language and Culture 3

8cp; 1st semester, 6hpw; prerequisite: Spanish Language and Culture 2 or HSC Spanish

Spanish 3 is the third in a series of four units for students with no prior knowledge of the Spanish language, or first in a series of four units for students who have successfully completed HSC-level Spanish or its equivalent. It provides students with basic survival skills in language and culture, and the ability to undertake In-country Study in Latin America or Spain.

By the end of the subject, students would be expected to have achieved a communicative competence in speaking, listening, reading and writing skills in order to be able to satisfy all 'survival' needs and limited social needs. They would also be expected to have developed an awareness of the various social and cultural contexts in which the language is used. In this subject, students develop the ability to understand the general content of magazine and newspaper articles.

Spanish 3 consists of 78 hours of classroom instruction. The approach adopted is 'communicative' and provides many opportunities for the students to interact and use the language in various social and cultural contexts. Audiovisual equipment and computers will be used to facilitate learning.

Spanish Language and Culture 4

8cp; 2nd semester, 6hpw; prerequisite: Spanish Language and Culture 3

Spanish 4 is the fourth in a series of four units for students with no prior knowledge of the Spanish language, or second in a series of four units for students who have successfully completed Spanish 3 and HSC-level Spanish or its equivalent. It provides students with basic survival skills in language and culture, and the ability to undertake In-country Study in Latin America or Spain.

By the end of the subject, students would be expected to have begun to develop the communication skills required to satisfy limited routine social and work demands. They would also be expected to have developed an awareness of the various social

and cultural contexts in which the language is used. In this subject, students learn to express opinions, discuss education, entertainment and travel, and develop the language skills and background knowledge required to find accommodation.

Spanish 4 consist of 78 hours of classroom instruction. The approach adopted is 'communicative' and provides many opportunities for the students to interact and use the language in various social and cultural contexts. Audiovisual equipment and computers will be used to facilitate learning.

Spanish Language and Culture 5

8cp; 1st semester, 6hpw; prerequisite: Spanish Language and Culture 4

Spanish 5 is the third in a series of four units designed to provide students who have successfully completed Spanish 4 and HSC-level Spanish or its equivalent with the ability to consolidate and extend their knowledge during a period of In-country Study in Latin America or Spain.

By the end of the subject, students would be expected to have achieved the communicative competence in speaking, listening, reading and writing to be able to satisfy routine social demands and limited work requirements. They would have developed an awareness of the various social and cultural contexts in which the language is used. Students learn to communicate in Spanish to compare lifestyles, university life and education, and practise interview techniques in preparation for In-country Study.

Spanish 5 consists of 78 hours of classroom instruction. The approach adopted is 'communicative' and provides many opportunities for the students to interact and use the language in various social and cultural contexts. There are discussions and debates on set topics. Audiovisual equipment and computers will be used to facilitate learning.

Spanish Language and Culture 6

8cp; 2nd semester, 6hpw; prerequisite: Spanish Language and Culture 5

Spanish 6 is the fourth in a series of four units designed to provide students who have successfully completed Spanish 5 and HSC-level Spanish or its equivalent with the ability to consolidate and extend their knowledge during a period of In-country Study in Latin America or Spain.

By the end of the subject, students would be expected to be able to speak the language with sufficient accuracy to participate in limited formal and informal conversations on practical and social topics. Students would also be expected to be able to read and write with sufficient accuracy to meet a limited range of social and work needs. Language focuses on topics such as the economy, class and social stratification, gender roles, religion and beliefs, literature, and the arts.

Spanish 6 consists of 78 hours of classroom instruction. The approach adopted is 'communicative' and provides many opportunities for the students to interact and use the language in various social and cultural contexts. There are discussions and debates on set topics. Audiovisual equipment and computers will be used to facilitate learning.

971710, 972710, 973710, 974710

Greek

Greek is offered to UTS students through arrangements with other universities in Sydney. Students are placed in classes appropriate to their level of competence. The program focuses on furthering writing and oral skills in contemporary Greek and learning about literature, society and culture.

971734, 972734, 973734, 974734

Russian

Russian is offered to UTS students through an arrangement with Macquarie University. Students are placed in classes appropriate to their level of competence. The aim of the Russian language program is to give students a good working knowledge of modern written and spoken Russian and to enable them to express themselves in the language correctly and with reasonable facility.

971744, 972744, 973744, 974744

Croatian

Croatian language is offered to UTS students through an arrangement with Macquarie University. Students are placed in classes appropriate to their level of competence with particular emphasis in furthering pronunciation and writing skills and learning about the history of the Croatian language.

971754, 972754, 973754, 974754**Slovenian**

Slovenian is offered to UTS students through an arrangement with Macquarie University. Students are placed in classes appropriate to their level of competence. The aim of the Slovenian language program is to provide students with a sound knowledge of the language to enable them to communicate effectively, with particular emphasis placed on broadening their vocabulary and grammar.

971764, 972764, 973764, 974764**Polish**

Polish is offered to UTS students through an arrangement with Macquarie University. Students are placed in classes appropriate to their level of competence. The Polish language program allows students to improve their linguistic competence through practice in speaking and writing skills while consolidating their previous knowledge of grammar.

971774, 972774, 973774, 974774**Ukrainian**

Ukrainian is offered to UTS students through an arrangement with Macquarie University. Combined degree students with a sound working knowledge of the language are admitted to study Ukrainian. Students are placed in classes appropriate to their level of competence. The Ukrainian language program allows students to improve their reading, writing and oral skills with particular emphasis placed on the study of grammar and syntax.

976101**Chinese East Asia**

8cp; 2nd semester, 4hpw

South China – Hong Kong, Taiwan and the Southern Chinese provinces of Fujian and Guangdong – is a region of global importance. It is a dynamo of economic growth for the East Asia region that has grown out of the economic integration of Hong Kong, Taiwan and South China, and is now expanding to include East China. Yet its constituent parts have developed separately in different and often inimical political systems. As a result of all of these factors, South China is likely to be of increasing importance strategically, economically and politically. This subject examines the development of Hong Kong, Taiwan and South China and their interaction. It is an

introductory subject that requires no prior knowledge of the region or of any Chinese language.

976111**Contemporary China**

8cp; 2nd semester, 4hpw

This subject examines the contours and dynamics of social, political and economic change in the People's Republic of China since the death of Mao Zedong and the start of the reform era. A central theme is the emerging relationship between state and society in a state socialist system in the process of change and reform. It is an introductory subject that requires no prior knowledge of the People's Republic of China or of any Chinese language.

976211**Contemporary Japan**

8cp; 2nd semester, 4hpw

This subject provides an introduction to the dynamics of political, social and economic systems in Modern Japan. Central themes are the causes and consequences of social change and continuity in the context of Japan's emergence as an economic superpower. In the process, it offers a general introduction to Japan's culture. This subject requires no prior knowledge of Japan or of Japanese.

976301**Contemporary South-East Asia**

8cp; 2nd semester, 4hpw

This subject provides an introduction to the countries of Indonesia, Malaysia and Thailand. The themes of modernity and identity will be examined at a political-economic level and also at the individual level. Issues which will be explored include migration patterns in the context of regional interrelationships; increasing urbanisation; legacies of colonialism; the commodification of culture and the growing impact of tourism; new creative forms in visual literary and performing arts; the beliefs about and behaviour of women in the region; and ways in which religion and social practice intersect.

976401**Contemporary Europe***8cp; 2nd semester, 5hpw*

This unit is an introduction and an overview laying the groundwork for the study of contemporary Europe. It surveys present-day European Union institutions and sociopolitical developments and provides a comparative study of political and social developments in the countries of Western and Eastern Europe. It aims to provide students with an understanding of the historical background of the present-day Europe and enable them to identify major contemporary policy issues in this region of the world.

976501**Contemporary Latin America***8cp; 2nd semester, 4hpw*

Latin America has been a crucible for social, political and economic change in the 19th and 20th centuries. Intense struggles for nationhood, democracy, economic modernisation, and secularisation, have all resonated in the countries of Latin America. During the middle of the 20th century Latin America's primary concerns were focused on national self-determination, inward industrialisation, and populist authoritarian efforts to legitimise elite rule. In the late 20th century the emphasis has shifted towards economic growth, internationalisation, and pressures to improve the capacity and accountability of governments. The unit aims to prepare students with the historical background, cultural awareness and analytic skills to interpret everyday social, political and economic reality during their period of In-country study. The subject requires no prior knowledge of Latin America or Spanish.

977xxx**In-country Study 1***24cp; prerequisite: completion of 4 semesters of study in the International Studies program*

As part of the International Studies combined degrees, students spend two semesters of In-country Study at a university or institution of higher education overseas. This is determined by the student's International Studies major.

The following majors are available in the International Studies program: Argentina, Australia and the Asia-Pacific Region, Chile, China, Croatia, France, Germany, Greece, Indonesia, Italy, Japan, Latin America, Malaysia, Mexico, Poland, Russia, Slovenia, South China, South-East Asia, Spain, Taiwan, Thailand and Ukraine.

978xxx**In-country Study 2***24cp; prerequisite: completion of 4 semesters of study in the International Studies program*

As part of the International Studies combined degrees, students spend two semesters of In-country Study at a university or institution of higher education overseas. This is determined by the student's International Studies major.

The following majors are available in the International Studies program: Argentina, Australia and the Asia-Pacific Region, Chile, China, Croatia, France, Germany, Greece, Indonesia, Italy, Japan, Latin America, Malaysia, Mexico, Poland, Russia, Slovenia, South China, South-East Asia, Spain, Taiwan, Thailand and Ukraine.

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Building Company Performance	16515	Design and Sustainable Human Futures 4	88610
Building Control and Regulations	16056	Design and Technology 1	89919
Building Design	16611	Design and Technology 2	89920
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J Twyford

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AAIQS

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MIEAust, MAIPM

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Associate Professor in Design Research

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AADM

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NatCertStructural Eng (Leic Coll Tech)

R S Cumpstone, CertClothing&Textiles
(Wgtn Poly)

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E N Hagen, MDes (RCA)

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D McManus, BA (Curtin)

J Raath

D G Thompson, DipArt&Design (Preston
Poly), CertEd (Dist) (Hatfield Poly), MCSD

E Yabsley, BDesign (UTS) MDIAIndex

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